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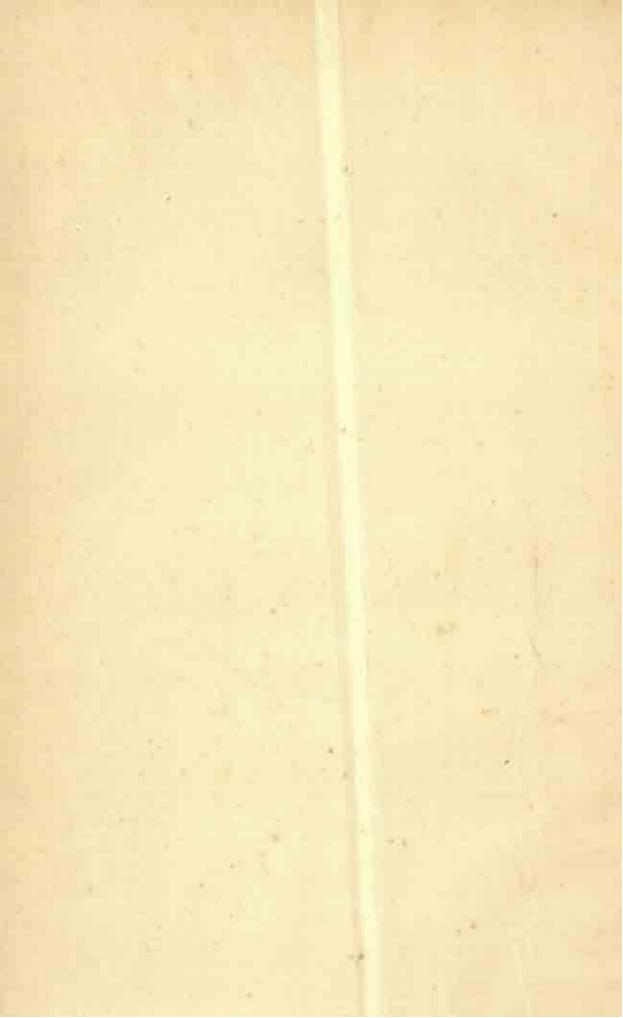
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## THE JOURNAL

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# HELLENIC STUDIES





# THE JOURNAL

OF.

# HELLENIC STUDIES

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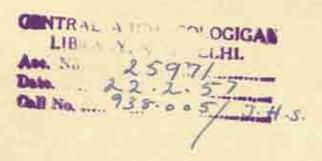
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### RULES

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## Society for the Promotion of Bellenic Studies.

- t. THE objects of this Society shall be as follows :-
- I. To advance the study of Greek language, literature, and art, and to illustrate the history of the Greek race in the ancient, Byzantine, and Neo-Hellenic periods, by the publication of memoirs and unedited documents or monuments in a Journal to be issued periodically.
- II. To collect drawings, facsimiles, transcripts, plans, and photographs of Greek inscriptions, MSS., works of art, ancient sites and remains, and with this view to invite travellers to communicate to the Society notes or sketches of archæological and topographical interest.
- III. To organise means by which members of the Society may have increased facilities for visiting ancient sites and pursuing archaeological researches in countries which, at any time, have been the sites of Hellenic civilization.
- 2. The Society shall consist of a President, Vice-Presidents, a Council, a Treasurer, one or more Secretaries, and Ordinary Members. All officers of the Society shall be chosen from among its Members, and shall be ex officio members of the Council.
- 3. The President shall preside at all General, Ordinary, or Special Meetings of the Society, and of the Council or of any Committee at which he is present. In case of the absence of the President, one of the Vice-Presidents shall preside in his stead, and in the absence of the Vice-Presidents the Treasurer. In the absence of the Treasurer the Council or Committee shall appoint one of their Members to preside.

- 4. The funds and other property of the Society shall be administered and applied by the Council in such manner as they shall consider most conducive to the objects of the Society: in the Council shall also be vested the control of all publications issued by the Society, and the general management of all its affairs and concerns. The number of the Council shall not exceed fifty.
- 5. The Treasurer shall receive, on account of the Society, all subscriptions, donations, or other moneys accruing to the funds thereof, and shall make all payments ordered by the Council. All cheques shall be signed by the Treasurer and countersigned by the Secretary.
- In the absence of the Treasurer the Council may direct that cheques may be signed by two members of Council and countersigned by the Secretary.
- 7. The Council shall meet as often as they may deem necessary for the despatch of business.
- Due notice of every such Meeting shall be sent to each Member of the Council, by a summons signed by the Secretary.
- 9 Three Members of the Council, provided not more than one of the three present be a permanent officer of the Society, shall be a quorum.
- to. All questions before the Council shall be determined by a majority of votes. The Chairman to have a casting vote.
- 11. The Council shall prepare an Annual Report, to be submitted to the Annual Meeting of the Society.
- 12. The Secretary shall give notice in writing to each Member of the Council of the ordinary days of meeting of the Council, and shall have authority to summon a Special and Extraordinary Meeting of the Council on a requisition signed by at least four Members of the Council.
- 13. Two Auditors, not being Members of the Council, shall be elected by the Society in each year,
- 14. A General Meeting of the Society shall be held in London in June of each year, when the Reports of the Council and of the Auditors shall be read, the Council, Officers, and Auditors for the ensuing year elected, and any other business recommended by the Council discussed

and determined. Meetings of the Society for the reading of papers may be held at such times as the Council may fix, due notice being given to Members.

- 15. The President, Vice-Presidents, Treasurer, Secretaries, and Council shall be elected by the Members of the Society at the Annual Meeting.
- 16. The President and Vice-Presidents shall be appointed for one year, after which they shall be eligible for re-election at the Annual Meeting.
- 17. One-third of the Council shall retire every year, but the Members so retiring shall be eligible for re-election at the Annual Meeting.
- 18. The Treasurer and Secretaries shall hold their offices during the pleasure of the Council.
- 19. The elections of the Officers, Council, and Auditors, at the Annual Meeting, shall be by a majority of the votes of those present. The Chairman of the Meeting shall have a casting vote. The mode in which the vote shall be taken shall be determined by the President and Council.
- 20. Every Member of the Society shall be summoned to the Annual Meeting by notice issued at least one month before it is held.
- 21. All motions made at the Annual Meeting shall be in writing and shall be signed by the mover and seconder. No motion shall be submitted, unless notice of it has been given to the Secretary at least three weeks before the Annual Meeting.
- 22. Upon any vacancy in the Presidency occurring between the Annual Elections, one of the Vice-Presidents shall be elected by the Council to officiate as President until the next Annual Meeting.
- 23. All vacancies among the other Officers of the Society occurring between the same dates shall in like manner be provisionally filled up by the Council until the next Annual Meeting.
- 24 The names of all candidates wishing to become Members of the Society shall be submitted to a Meeting of the Council, and at their next Meeting the Council shall proceed to the election of candidates so proposed; no such election to be valid unless the candidate receives the votes of the majority of those present.

- 25. The Annual Subscription of Members shall be one guinea, payable and due on the 1st of January each year; this annual subscription may be compounded for by a single payment of £15 153., entitling compounders to be Members of the Society for life, without further payment. All Members elected on or after January 1, 1905, shall pay on election an entrance fee of two guineas.
- 26. The payment of the Annual Subscription, or of the Life Composition, entitles each Member to receive a copy of the ordinary publications of the Society.
- 27. When any Member of the Society shall be six months in arrear of his Annual Subscription, the Secretary or Treasurer shall remind him of the arrears due, and in case of non-payment thereof within six months after date of such notice, such defaulting Member shall cease to be a Member of the Society, unless the Council make an order to the contrary.
- 28. Members intending to leave the Society must send a formal notice of resignation to the Secretary on or before January 1; otherwise they will be held liable for the subscription for the current year.
- 29. If at any time there may appear cause for the expulsion of a Member of the Society, a Special Meeting of the Council shall be held to consider the case, and if at such Meeting at least two-thirds of the Members present shall concur in a resolution for the expulsion of such Member of the Society, the President shall submit the same for confirmation at a General Meeting of the Society specially summoned for this purpose, and if the decision of the Council be confirmed by a majority at the General Meeting, notice shall be given to that effect to the Member in question, who shall thereupon cease to be a Member of the Society.
- 30. The Council shall have power to nominate British or Foreign Honorary Members. The number of British Honorary Members shall not exceed ten.
- 31. Ladies shall be eligible as Ordinary Members of the Society, and when elected shall be entitled to the same privileges as other Ordinary Members.
- 32. No change shall be made in the Rules of the Society unless at east a fortnight before the Annual Meeting specific notice be given to every Member of the Society of the changes proposed.

#### RULES FOR THE USE OF THE LIBRARY

#### AT 22 ALBEMARLE STREET.

- THAT the Library be administered by the Library Committee, which shall be composed of not less than four members, two of whom shall form a quorum.
- II. That the custody and arrangement of the Library be in the hands of the Hon, Librarian and Librarian, subject to the control of the Committee, and in accordance with Regulations drawn up by the said Committee and approved by the Council.
- III. That all books, periodicals, plans, photographs, &c., be received by the Hon. Librarian, Librarian or Secretary and reported to the Council at their next meeting.
- IV. That every book or periodical sent to the Society be at once stamped with the Society's name.
- V. That all the Society's books be entered in a Catalogue to be kept by the Librarian, and that in this Catalogue such books, &c., as are not to be lent out be specified.
- VI. That, except on Christmas Day, Good Friday, and on Bank Holidays, the Library be accessible to Members on all week days from eleven A.M. to six P.M. (Saturdays, 11 A.M. to 2 P.M.), when either the Librarian, or in his absence some responsible person, shall be in attendance. Until further notice, however, the Library shall be closed for the vacation from July 20 to August 31 (inclusive).
- VII. That the Society's books (with exceptions hereinafter to be specified) be lent to Members under the following conditions:-
  - (1) That the number of volumes lent at any one time to each Member shall not exceed three.
  - (2) That the time during which such book or books may be kept shall not exceed one month.
  - (3) That no books be sent beyond the limits of the United Kingdom.
  - VIII. That the manner in which books are lent shall be as follows:-
    - That all requests for the loan of books be addressed to the Librarian.
    - (2) That the Librarian shall record all such requests, and lend out the books in the order of application.
    - (3) That in each case the name of the book and of the borrower be inscribed, with the date, in a special register to be kept by the Librarian.
    - (4) Should a book not be returned within the period specified, the Librarian may reclaim it.

- All expenses of carriage to and fro shall be borne by the borrower.
- (6) All books are due for return to the Library before the summer vacation.
- 1X. That no book falling under the following categories be lent out under any circumstances:—
  - (1) Unbound books.
  - (2) Detached plates, plans, photographs, and the like.
  - (3) Books considered too valuable for transmission.
  - (4) New books within one month of their coming into the Library.
- X. That new books may be borrowed for one week only, if they have been more than one month and less than three months in the Library.
- XI. That in the case of a book being kept beyond the stated time the borrower be liable to a fine of one shilling for each week after application has been made by the Librarian for its return, and if a book is lost the borrower be bound to replace it.

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Applications for books and letters relating to the Photographic Collections, and Lantern Slides, should be addressed to the *Librarian* (Mr. J. ff. Baker-Penoyre), at 22 Albemarle Street, W.

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### SESSION 1904-1905.

The First General Meeting of the Society was held on November 1st, when Dr. Arthur Evans gave an account of the last season's work at

Knossos, the Provost of Oriel being in the chair,

Dr. Evans said that on the palace site itself this year's excavations had thrown much new light on the stratigraphy of the successive "Missoan" constructions dating from the close of the Neolithic period onwards. In the west wing of the later palace the original plan could now be clearly distinguished from the existing scheme, which was shown to be the result of subsequent remodelling. Fresh stone repositories belonging to its first period-like those found in 1903 containing the faience figures and snake goddess, but less rich in relics-were found to extend north of the others beneath the later stepped portico which here descends to the central court. A whole line of earlier gypsum walling facing this court could finally be made out, a little within the later wall. This original façade was seen to have been partly incorporated in the later constructions, and partly to have been broken through by them. The west wall of the palace itself and the adjoining magazines belonged to the original work, but the entrances to the magazines were found to have been altered. Originally they were provided with comparatively narrow doors appropriate to the valuable contents of the cists along their floors. Later, the entrances were widened, the cists reduced to mere shallow cavities, and the whole fitted out for the reception of huge oil jars. From the superficial deposit of some of these cists belonging to the second period of the later palace were brought out a variety of painted stucco fragments which had fallen here from a N.W. hall above. Among these were illustrations of the bull ring, together with other frescoes, slightly larger than the "miniature" paintings found in 1900, showing part of the façade of another shrine, with the "fetish" double-axes stuck into its columns. Dr. Evans also exhibited a scheme devised by him for the arrangement of the scattered fragments of the earlier-discovered miniature frescoes as part of connected designs. Two panels were thus reproduced by M. Gillieron under his direction, one showing a small temple and halls on either side,

with ladies seated or standing in the foreground and throngs of menbehind. The other depicted walled enclosures with trees and similar spectators overlooking a court where gaily-dressed women were engaged in a mazy dance. Fresh interesting fragments had also been detected of the painted reliefs exhibiting parts of a male figure, with a fleur-de-lis crown, and these permitted the restoration of the entire figure of what was not improbably one of the priest-kings of Knossos. The centre of the crown was found to be adorned with peacocks' plumes. A clay sealing of still earlier date supplied what appeared to be an actual portrait of a Minoan dynast associated with his son, but in this case the head was crownless. A section cut beneath the pavement of the west court had laid bare remarkably complete evidence as to the stratification and comparative chronology of the characteristic stages of Minoan culture that preceded the construction of the later palace. The foundation of the later palace was shown to have been posterior to the great "Middle Minoan" age of polychrome pottery. Its second period, as appeared from Egyptian associations, did not come down later than about 1500 B.C., but there were now traceable six distinct periods of culture that separated the initial stage of the later palace from the latest Neolithic deposit. Below this again the Neolithic stratum, which was itself superposed on the virgin rock, attained a depth of from six to eight metres. On the western borders of the palace the total depth of the human deposit was from twelve to fourteen metres. A Minoan paved way was opened out leading directly west from the "theatral area" discovered last year. Near this, towards the close of the present excavations, had come to light what appeared to be remains of the Royal arsenal. A large hoard of clay documents was found here relating to chariots and arms, and near one of these-enumerating a lot of over 800 arrows-lay the remains of two officially-sealed chests containing the bronze-headed arrows themselves, A principal work of the year was the exploration of an extensive cemetery dating from the last days of the palace and the immediately succeeding period. Over a hundred tombs were opened, containing bronze vessels, arms, Jewellery, and other typically "Mycenæan" remains. Of still greater interest was the discovery of what appears to have been a Royal mausoleum occupying a commanding point overlooking land and sea. It was built on a different plan from those of Mycenean Greece, the principal chamber being square with a keeled roof. Most of the metal objects had been abstracted in ancient times, but magnificent vases in the later palace style were found, together with Egyptian alabastra of the beginning of the XVIIIth Dynasty.

Plans of the mausoleum by Mr. Theodore Fyse were exhibited.

The Second General Meeting, at which Mr. S. H. Butcher took the chair, was held on February 21st, when Mr. W. W. Tarn read a paper on the limits of the Greek Warship problem, which appears in this volume.

The paper, which was listened to with great attention, evoked a remarkably good discussion. Among the speakers were Mr. W. C. F. Anderson, Mr. H. Awdry, Professor Ernest Gardner, Mr. G. F. Hill, Mr. H. Stannus, and Mr. H. H. Statham.

The Third General Meeting was held on May 9th. At this meeting Professor Percy Gardner read a paper on the Apoxyomenos and Lysippos, Professor C. Waldstein taking the chair. The main contention of Professor Gardner's paper was that the well-known Apoxyomenos of the Vatican cannot, in the light of recent discoveries, especially that of the Agias statue at Delphi, be regarded as a trustworthy indication of the style of Lysippos. In the discussion which followed, Dr. Waldstein and Professor Ernest Gardner took part. Arrangements have been made for other papers dealing with the Masters of the fourth century during the next session, so that we may expect further light on the problems discussed by Professor Gardner in this valuable paper.

The Annual General Meeting was held at Burlington House, on June 27th, the President, Sir Richard Jebb, M.P., occupying the chair.

The Hon Secretary (Mr. George Macmillan) read the following report on behalf of the Council:—

The Session for 1904-5 has been distinguished by two noteworthy events, one intimately connected with the history of the Society and one forming a landmark in the general progress of archaeological research.

Of the meeting held on July 5th, 1904, to celebrate the twenty-fifth anniversary of the foundation of the Society, a full account has already appeared. In the last volume of the JOURNAL are verbatim reports of the President's retrospective address, and of the speeches delivered by the distinguished visitors who were present for the occasion. It only remains for the Council, on behalf of the Society, once more to emphasise the pleasure it gave to them to learn from the addresses of the American delegates, from the series of telegrams from the leading foreign archaeologists, and from the expressions of goodwill offered by the former Minister for Greece in London, the cordial estimation in which our Society is held by the Greek community, by our conference on the Continent, and by our kinsmen in America.

The Council next desires to tender to H.R.H. the Crown Prince of Greece, President of the recent Archaeological Congress at Athens, to Dr. P. Kavvadias, Ephor-General of Antiquities in Greece and long an honorary member of our Society, and to the Greek nation at large, their sincere felicitations on the success of that important international gathering. The President and Hon Secretary were chosen as the Society's Delegates to the Congress, but Sir Richard Jebb was unavoidably prevented by his Parliamentary duties from attending. Mr. Macmillan

ound on reaching Athens that an Address of congratulation was being presented by most of the Delegates and he accordingly, in consultation with other members of Council who were members of the Congress, drew up such an Address in the name of the Society and presented it at the opening meeting. The following members of Council, besides reading papers, took an active part in the Congress as Presidents or Vice-Presidents of Sections: Dr. Arthur Evans, Prof. Percy Gardner, Mr. Cecil Smith, and Professor Waldstein. Papers were read also by Mr. Louis Dyer and Miss Harrison.

In addition to the Commemorative gathering of July, the Society has held its usual quarterly meetings for the reading of papers and discussion. In November, Dr. Arthur Evans laid before us the results of his excavations at Knossos during the previous season, describing in particular the Mausoleum of Minoan times then discovered. In February, Mr. W. W. Tarn read a paper, which led to an interesting discussion, on the Greek Warship, and in May, Professor Percy Gardner read a paper on the Apoxyomenos in its relation to Lysippus in the light of the more recently discovered Agias of Delphi.

In accordance with a vote of the Council, an Address, written on behalf of the Society by Sir Richard Jebb, has been sent to Professor Adolf Michaelis, Director of the Institute of Art and Archaeology at Strassburg. on the occasion of the celebrations attending his seventieth birthday, which fell on June 22. It was felt that this compliment was especially due from English archaeologists to the author of Ancient Maroles in Great Britain, and one of the original honorary members of this Society. By the death, mentioned in last year's report, of Professor Ulrich Kohler, Professor of Ancient History in the University of Berlin, and at the time of the Society's foundation Director of the German Archaeological Institute at Athens, the Society has lost one of its original honorary members. As this year has been signalised by the Archaeological Congress at Athens the Council propose to invite H.R.H. the Crown Prince of Greece, as President of the Archaeological Society of Athens, to do the Society the honour of accepting the vacant place in the list of honorary members. It was also recently decided in recognition of his long services to the Society to create the honorary Secretary, Mr. George Macmillan, a life member lumoris causa.

The Council has again granted the sum of £100 to the Cretan Exploration Fund, and Mr. Arthur Evans has pursued with his usual vigour and success his investigations on the site of Knossos. Though his work this season was unfortunately hampered by lack of adequate funds he has further elucidated the plan of the Queen's apartments in the Palace by the discovery of additional portions of the colonnaded staircase. He has also, in following up the line of the ancient Minoan roadway on the west side of the Palace, come on an important building which was evidently

its objective. It remains to be seen whether funds will be forthcoming to explore the building thoroughly.

The usual grants have been made of £100 to the British School at Athens and £25 to the School at Rome, and in connection with the latter it may be mentioned that the Council recently authorised the President and Honorary Secretary to sign in the name of the Society a memorial to the Treasury in favour of a grant of £500 a year to the School from public funds. The sum of £25 has been granted to Professor W. M. Ramsay for research in Asia Minor, and £10 to Mr. Hogarth for exploration in Cyrene.

### The Library.

In last year's Report the attention of members was drawn to the increasing difficulty, owing to the limited accommodation at Albemarie Street, of keeping the Society's Library on a plan readily intelligible to students and visitors. That difficulty the Council has been able, in a measure, to obviate by the acquisition of a small adjoining room, with the result that the subject order of the books remains undisturbed, and the accommodation for students is somewhat improved. Another small improvement is that the system of classifying and binding the forty volumes of archaeological tracts from the Library of the late Dr. Overbeck has been extended to the hitherto scattered pamphlets and smaller monographs. A subject catalogue of all the pamphlets will shortly be ready for use in the Library.

The records show that 375 visits were paid to the Library in the course of the year, as against 338 for the year 1903-4, and 250 for the year 1902-3. In addition to the books consulted in the Library 401 volumes were borrowed, the figures for the preceding years being 312 and 211. The Librarian believes that many members are still unaware that they are at liberty to order and receive books by post.

97 books (122 volumes) have been added to the Library. Among accessions of special interest are:—

The completion of the Corpus Inscriptionum Atticarum; Collignon (M.) and Couve (L.), Catalogue des Vases peints du Musée National d'Athènes; Burlington Fine Arts Club, Exhibition of Ancient Greek Art; Rayet (O.), Monuments de l'Art Antique; Wood (R.), The Ruins of Palmyra and Baalbee, and the supplementary volume to Stuart (J.) and Revett (N.), Antiquities of Athens.

The thanks of the Society are due to the Delegates of the University Presses at Oxford, Cambridge, and Chicago, and the Trustees of the British Museum, for gifts of books to the Library. The following authors have presented copies of their works:—Mr. F. S. Benson, Rev. H. Browne.

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Mr. S. H. Butcher, M. P. Foucart, Professor Percy Gardner, Dr. A. van Millingen, Mr. J. G. Milne, Signor P. Orsi, Herr E. Petersen, and Mr. Hermann Smith. Miscellaneous gifts of books have been received from Mr. J. M. Edmonds, Mr. F. W. Hasluck, Mr. G. F. Hill, and the Librarian. The following publishers have presented books:—Messrs. Barth, Frowde, Hachette, Laurens, Leroux, Longman, Macmillan, Murray, Seeman, Unwin, and Weidmann.

### The Collection of Negatives, Slides, and Photographs.

The complete catalogue of lantern slides promised in the Council's report of last year appeared in the second part of the JOURNAL for 1904. As was then explained, the 1,700 slides, now catalogued for the first time on a single scientific system, serve also as an index of the Society's far larger resources in the collection of negatives. Photographic prints of these are kept to facilitate the choice of members wishing to purchase or hire slides or photographs.

Miscellaneous additions, catalogued on the same system as in the original catalogue, will in future be found in the last part of each volume of the JOURNAL, and it is further hoped to add substantial sections from time to time, notably a section on epigraphy and one embracing a more comprehensive treatment of the lesser arts. Through the kindness of members of the Argonaut cruise, further important additions in the topographical series are expected. Copies of the original catalogue and of the special lists of slides for elementary lectures may still be had.

In the course of the year 787 slides and 366 photographs were sold to members, and the large number of 3,053 slides were lent on hire, more than double the number lent last year. It is satisfactory to be able to note that the considerable expense of reorganising and improving this department, and of replacing where necessary a large number of negatives removed from the collections, has already been nearly recovered by the use members make of the materials collected and arranged for them.

The Council desire to take this opportunity of thanking Mr. J. L. Myres, who retired from the office of Hon. Keeper of the Photographic Collections in the course of the year, for his great services to this department of the Society's work.

### Finance.

Turning to the always important subject of the Society's finances, it will be within the recollection of members that at the last Annual Meeting it was decided, having regard to the increased advantages now offered to members and to the consequent increase of expenditure, to raise the Entrance Fee from one to two guineas. The new arrangement did not take effect till the beginning of the current year, and it is perhaps too early

to form an opinion on the effect this change will have on the Society's financial position. It is, however, quite safe to say that private members can do the Society no better service than by making its aim and claim known in suitable quarters. If the efforts made in this direction by a few of our members were shared by the general body, the Society's numbers and efficiency might be very largely increased.

The financial position of the Society has necessarily occupied the attention of the Council more than usual during the past session. The statement recently circulated to members showed that the outlay on administration and on the primary objects of the Society, such as the JOURNAL and the Library, now works out at about 18s. 6d. a year for each member, leaving therefore a very small margin for grants or for any unforeseen expenditure. The question of raising the annual subscription was considered, but put aside as inexpedient. It was then proposed, and provisionally decided by the Council to recommend, that the Fee for Life Composition should be raised from fifteen to twenty guineas. On more mature consideration, however, the Council have decided not to make this recommendation, at any rate for the present. All the more important is it that their recent proposal for an Endowment Fund, to which members might contribute either by donation or bequest, should receive liberal support. It should perhaps be explained that the object of this proposal was not to increase the number of Life Compositions, but to offer to Life Members and Annual Subscribers allke an opportunity of helping the Society at a critical period. A few long-standing subscribers have answered the appeal by compounding. Having regard to their previously paid annual subscriptions the Council have gratefully accepted their action, but wish to make it quite clear that their intention in issuing the Endowment Fund Appeal was to solicit donations or bequests from the general body of members. If every member felt able to make a small donation of a guinea or upwards, a sufficient sum would be raised to enable the Society to cover its outstanding liabilities, which as the accounts will show are just now exceptionally heavy, and to leave a substantial nucleus which might be increased from time to time by further donations or bequests. The Council earnestly commend this suggestion to all members, and trust that the response may be both prompt and general. So far, though the appeal was issued in April, not more than ten members have responded, beyond the few already mentioned who have sent in Life Compositions.

It was stated in last year's Report that the Society's accounts would in future be presented in a different form, which would show more clearly its actual financial position. The accounts now submitted are the fulfilment of this promise. It will be seen that separate accounts are given of each department of the Society's work, including such special undertakings as the publications of the Aristophanes Facsimile and the volume on Phylakopa. Taking these accounts in order, the two numbers of the Journal, which have been paid for during the year cost, including distribu-

tion, £618, while the receipts from sales and advertisements amount to £140, showing a net cost of £478. The cost of reprinting Volume XXIII., amounting to £121, has also been met during the year. The outstanding account against the Phylakopi volume has been reduced from £296 to £244 by the sale of 52 copies. In spite however of special efforts made to push the sale, only two copies of the Aristophanes Facsimile have been sold during the year, which is a very disappointing result. The American Archaeological Institute has made a further payment during the year to cover its share of the cost of production.

The Lantern Slides account shows a slight loss of £5 on the year's working, but this department may be regarded as being on a self-supporting basis. The outlay on the Library has amounted to £101, a considerable excess over the annual grant of £75 made by the Council. This is in a measure due to arrears of binding, but it is evident that economy must be exercised in this as in some other departments. The grants made during the year, as recorded earlier in this Report, amount to £260. Unless a considerable improvement takes place in the Society's financial position, it may be necessary to reduce for a few years the amount spent on exploration and excavation.

Turning now to the Account of Income and Expenditure, it will be seen that an actual loss of £260 is shown on the year's working, and this in spite of the fact that, owing to the unusual increase in the number of members, the entrance fees have brought in no less than £133. The total receipts from ordinary revenue amount to £1,168. The expenditure, including grants, Library, and the balance on the JOURNAL (including £121 for the reprint of Vol. XXII.); amounts to £1,450. The salaries amount now to £165. The rent also is increased, and will in future amount to £100 per annum. The charge for stationery, postage, sundry printing and other miscellaneous expenses amounts to £140. The cost of printing and distributing the History of the Society and the Proceedings at last year's Anniversary Meeting, amounting to £33, will not recur-Life Subscriptions to the amount of £94 have been received during the year, but although it has been necessary to spend this sum it does not properly belong to revenue. It is intended in future to bring into the Revenue account the Composition Fees of Life Members who have died during the year, and the item £47 5s. in respect of three such members comes into the present account.

The Balance Sheet gives what is believed to be a true statement of the Society's financial position. On the one side are shown actual debts payable (including all outstanding liabilities to the end of the financial year), amounting to £394. A certain proportion (£535) of the subscriptions received for 1905 is carried forward as a liability to meet the expenses of the seven months from June 1—the end of the financial year—to January 1, when the new subscriptions come in. The item £1,699 for Life Compositions represents the sum actually received from Life Members

who still survive. It is open to question whether this sum is strictly speaking a liability, for under no probable circumstances could its repayment be claimed. Nevertheless, it certainly carries an obligation to supply the JOURNAL to these members during their lifetime, or so long as the Society continues. On the other side of the account stand the cash in hand, £200, debts receivable, £131, the present value of the investments, £1,263, the estimated value of the stock of publications and of the Library, £1,065. In forecasting the revenue up to December 31, something may be allowed for arrears of subscriptions (the amount actually due is £149), and for entrance fees and subscriptions which may come in from new members, but as these items are uncertain they cannot appear in the accounts until they are actually received. From May 31, when the accounts were made up, £23 has come in from arrears, and £20 from new members.

### Conctusion.

Among members lost by death during the year, special mention should be made of the Bishop of Southwell, Dr. Thomas Fowler, President of Corpus College, Oxford, Admiral Sir Erasmus Ommaney, the Rev. Augustus Austen-Leigh, Provost of King's College, Cambridge, Canon Adam Farrar of Durham, and Mr. F. D. Mocatta, long a generous supporter of this as of many other learned Societies.

During the year, 118 new members have been elected, while 30 have been lost by death or resignation. The number of members at present on the list is 926, and there are in addition 162 subscribing Libraries and 40

honorary members.

It seems clear from this Report that as regards both the efficiency and the scope of its work, the session 1904-5 shews a marked improvement in the Society's position. The serious state of its finances has been dwelt upon at some length, and constitutes a strong argument for increasing its numbers and raising further funds. With such additional support, both the thoroughness and the scale of its efforts might be extended to the better fulfilment of the Society's aim, the advancement of Hellenic study.

In moving the adoption of the Report the President said-As the aim of our Society is to promote Hellenic studies in the most comprehensive sense, our Annual Meeting is an occasion on which it is natural to consider what has been achieved in the field of these studies during the past twelve months, though the survey must necessarily be very brief and incomplete. With regard to the past year, it may perhaps be said that the Congress at Athens has been the most signal incident. Of that I shall not attempt to speak: it has been very fully recorded, and would, indeed, claim large discourse. For similar reasons, I shall not speak of Crete; the Society may hope to hear about that from Mr. Arthur Evans himself. But it may

be useful to give a few brief notes about the work, mostly of a less conspicuous kind, which has been going on in various parts of the Greek lands. At Oropus the Greeks have resumed excavations on the site of the Amphiareion, where various buildings have been discovered, including lodgings for visitors to the shrine. At Sunium the town wall and other buildings have been cleared. At Epidaurus a new stoa of considerable length has been discovered. An interesting account of the altar of Zeus on Mount Lycaeus has now been published in the Ephemeris Archaiologike. The altar was a mound of ashes of great size, which stood on the very summit of the mountain. In its neighbourhood were found some bases of later date and other remains of building, as well as some votive figures. Passing from the mainland of Greece to the islands, we may note the excavations conducted for the Belgian government at Carthaea on the south-east coast of Coos. Carthaea, it may be remembered, was the town where Simonides a native of Iulis in the same island, held in his youth the post of chorodidascalus in the local choregeion before he was invited by the Peisistratidae, about 527 B.C., to perform similar functions at Athens. The Belgian exploration has resulted in determining the position of the principal buildings at Carthaea, including a prytancion. About sixty inscriptions have also been found, the more important of which relate to the reigns of the first two Prolemies. At Delos, the French school continued their excavations in the early autumn of 1904. Much of the debris which had encumbered the site was cleared away. The new discoveries included the site of a hieron of Dionysus, and some archaic statues of Apollo-Some early pottery was also found, a noteworthy fact, since at Delos old ceramic work had hitherto been conspicuous by its absence. Another interesting discovery was a sculptor's shop in the agora, as well as some other houses, so that now it is possible to form some idea of the aspect of a street in Delos. Several inscriptions of the Hellenistic period were also brought to light. The little island of Ios, best known in antiquity as the legendary place of Homer's death and burial, has also been visited by the Belgian archaeologists who have found there a temple and other remains. Much interest has attached to the German excavations in Cos, on the site of the Asclepicion, which are not yet quite complete, but have been provisionally published in the Archaeologische Aussiger for 1905, part I. Dr. Herzog has found three terraces, the highest of which was occupied by the temple and its porticees; on the lowest there was a sacred agora-Further light has been thrown on the internal arrangements of the great temple of Asclepios. A later building of the Hellenistic period has also been found, with the bases of the statues which were ranged around one of its rooms. A large number of inscriptions has been obtained, about a hundred in all. One of these is a decree, of the fifth century B.C., declaring it unlawful to cut down cypress-trees in the sacred precinct. Among those of a later period, one dates from a time soon after the abortive attack of the Gauls on Delphi in 279 u.c., and alludes to the epiphaneia of Apollo to

protect his sanctuary. Another, of about 200 B.C., refers to a newly-instituted festival of Artemis under the title of Hyacinthotrophos. Another preserves the beginning of a letter from King Antiochus to the people of Cos, recommending to them his physician Apollonophanes. In Rhodes, the Danish excavations at Lindos have yielded some inscriptions of considerable historical value, especially for the history of art. Among these is a list of the eponymous priests of Athena Lindia from 170 B.C. The nature of the buildings on the acropolis of Lindos has also been elucidated.

While good work has thus been proceeding among the islands, much has also been done at various points on the western coasts of Asia Minor. At Pergamon, progress has been made in clearing the youths' Gymnasium, and the interesting Hellenistic house to which the Hermes of Alcamenes probably belonged. At Ephesus the further researches on the site of the temple, conducted on behalf of the British Museum by Mr. Hogarth, have yielded some valuable results. The Austrians also have continued their work on that site. The reliefs which they found last year at the library have been put together at Vienna, and prove to represent the Emperors Marcus Aurelius, Lucius Verus, and Commodus. At Smyrna the Aphrodision has been explored, with the result of discovering reliefs of the Hellenistic and Roman periods. But perhaps no excavations during the past year are of greater importance than those which the Germans have been conducting at Miletus. I am indebted to Professor Ernest Gardner for an opportunity of reading the latest report on this work, recently drawn up by Dr. Theodor Wiegand. Here it must suffice briefly to notice one or two of the principal results. A remarkable sanctuary of Apollo Delphinios has been investigated. The sacred precinct consisted of a large rectangular enclosure, surrounded by porticoes But no temple stood on the ground thus enclosed. The central object was a colossal tripod-stand. East of this there was a deep circular basin of marble, about two metres in diameter. West of it were the remains of two crescent-shaped exedrae, facing each other. West of these again was a large rectangular altar of archaic character, with a smaller round aftar, also archaic, close to it at the middle of its east side. This round altar was to Hecate. In the south-west corner were three round altars, of date not later than the fifth century u.c.; one of these was for Zeus Soter, another for Artemis; the third bears no inscription. Stone tablets, about 21 metres high, let into the walls of the portiones surrounding the temenos, give lists of the eponymous officials of Miletus, the assummetre who were entitled stephanephori. Two of the lists, which are consecutive give the series without a break from the year \$23 He down to 260 B.C. A third list belongs to the middle of the second century n.c. Three others, which again are consecutive, comprise the period from about 89 n.c. to A.D 20. In all, we have the eponymi for 434 years. These records afford, it seems, some seanty, but still valuable data for the constitutional history of Miletus. Some famous names occur here and there, such as those of "Alexander, son of Philip," and "King Mithridates." As Dr. Wiegand observes, these lists will be of especial value as aids to the chronology of other documents connected with Miletus.

In the province of Greek literature and palaeography, the past year has produced no event of signal importance. But it may be well to mention a work which, though it appeared in the spring of 1904, was not, I think, noticed at our last annual meeting, when the history of our Society during the last five and twenty years naturally had the foremost claim on attention. I refer to the commentary of Didymus on Demosthenes, edited from a papyrus by an honorary member of this Society. Professor Diels of Berlin, in conjunction with Dr. Schubart. A notable feature of it is the series of long citations from Philochorus, whose work seems to have served in some sort as an annual register. The Oxyrhynchus fragment of Pindar, published in June, 1904, may also be included in this survey. It has the interest of confirming the remark of Dionysius, that the style of Pindar's partheneia was simpler and easier than that which is found in his odes or fragments of other classes.

Since our last annual meeting, the Society has lost several members, some of them distinguished in various walks of life, and all sympathetic friends of the studies which our Society seeks to promote. The names thus removed from our roll are those of the late Dr. Ridding, Bishop of of Southwell; Admiral Sir E. K. Ommanney; the Rev. Dr. Thomas Fowler, President of Corpus Christi College, Oxford; the Rev. Augustus Austen Leigh, Provost of King's College, Cambridge; the Rev. Dr. A. S. Farrar, Canon of Durham; Mr. F. D. Mocatta; and Miss E. C. Stevenson.

The adoption of the Report, having been seconded by Dr. D. Bikelas, was carried unanimously.

The former President and Vice-Presidents were re-elected, and Mr. M. N. Tod was elected to a vacant place on the Council,

After a vote of thanks to the Auditors of the Society's accounts, Messrs. A. J. Butler and George L. Craik, proposed by Dr. Arbuthnot Nairn and seconded by Mr. H. H. Statham, the proceedings terminated. A comparison with the receipts and expenditure of the last ten years is furnished by the following tables:-

ANALYSIS OF ANNUAL RECEIPTS FOR THE YEARS ENDING :-

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### INSCRIPTIONS.

Prefatory Notice.—In pursuance of a promise in the original catalogue a series of some fifty allides is in preparation suitable for an introductory course on Greek Epigraphy. In a subject difficult of classification it has been found beat to limit this series at the outset to one mainly illustrative of the study of the forms of the Greek alphabets, their differences and developments - Care, however, is being taken to include among the illustrations a fair proportion of inscriptions of well known historical interest. The arrangement followed will be approximately that adopted in E. S. Roberts' Introduction to Greek Epigrophy, but the illustrations where possible will be taken from originals or facsimiles. It is hoped that this series will be available next session.

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The Council of the Hellenic Society having decided that it is desirable for a common system of transliteration of Greek words to be adopted in the Journal of Hellenic Studies, the following scheme has been drawn up by the Acting Editorial Committee in conjunction with the Consultative Editorial Committee, and has received the approval of the Council.

In consideration of the literary traditions of English scholarship, the scheme is of the nature of a compromise, and in most cases considerable

latitude of usage is to be allowed.

(1) All Greek proper names should be transliterated into the Latin alphabet according to the practice of educated Romans of the Augustan age. Thus κ should be represented by ε, the vowels and diphthongs ν, αι, οι, ου by y, αε, οε, and u respectively, final -os and -oν by -us and -um, and -pos by -er.

But in the case of the diphthong ei, it is felt that of is more suitable than e or i, although in names like Lacdicco, Alexandria, where they are consecrated by usage, e or i should be preserved also words ending in -ecov must be represented by -eum.

A certain amount of discretion must be allowed in using the 
σ terminations, especially where the Latin usage itself varies 
or prefers the σ form, as Delos. Similarly Latin usage should 
be followed as far as possible in -ε and -α terminations, 
e.g., Priens, Smyrna. In some of the more obscure names 
ending in -ροs, as Λέαγροs, -εr should be avoided, as likely 
to lead to confusion. The Greek form -σπ is to be preferred 
to -σ for names like Dion, Hieron, except in a name so common 
as Apollo, where it would be pedantic.

Names which have acquired a definite English form, such as Corinth, Athens, should of course not be otherwise represented. It is hardly necessary to point out that forms like Hereules, Mercury, Minerca, should not be used for Heracles, Hermes, and

Athena.

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- (2) Although names of the gods should be transliterated in the same way as other proper names, names of personifications and epithets such as Niks, Homonoia, Hyakinthios, should fall under § 4.
- (3) In no case should accents, especially the circumflex, be written over vowels to show quantity.
- (4) In the case of Greek words other than proper names, used as names of personifications or technical terms, the Greek form should be transliterated letter for letter, k being used for κ, ch for χ, but y and u being substituted for ν and oν, which are misleading in English, e.g., Niku, apoxyonenos, diadumenos, rhyton.
  - This rule should not be rigidly enforced in the case of Greek words in common English use, such as acque, symposium. It is also necessary to preserve the use of on for ou in a certain number of words in which it has become almost universal, such as boule, gerousia.
- (5) The Acting Editorial Committee are authorised to correct all MSS and proofs in accordance with this scheme, except in the case of a special protest from a contributor. All contributors, therefore, who object on principle to the system approved by the Council, are requested to inform the Editors of the fact when forwarding contributions to the Journal.

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Names of authors should not be underlined; titles of books, articles, periodicals or other collective publications should be underlined (for italics). If the title of an article is quoted as well as the publication in which it is contained, the latter should be bracketed. Thus:

Six, Jahrb. xviii. 1903, p. 34,

OP-

Six, Protogenes (Jahrb. xviii. 1903), p. 34.

But as a rule the shorter form of citation is to be preferred.

The number of the edition, when necessary, should be indicated by a small figure above the line; e.g. Dittenb. Syll? 123.

### Titles of Periodical and Collective Publications.

The following abbreviations are suggested, as already in more or less general use. In other cases, no abbreviation which is not readily identified should be employed.

A.-E.M. = Archaelogisch - pigraphische Mittheilungen.

Ann. d. I = Annali dell' Instituto.

Arch. Asz = Archaologischer Anzeiger (Belblatt zum Jahrbuch).

Arch Zeit, = Archhologische Zeitung.

Ath. Mitth, = Muthellungen des Deutschen Arch, Iust., Athenische Abtheilung

Baumeister - Bammeister, Denkinfiler des klassischen Altertums.

B; C H. = Bulletin de Correspondance Hellénique.

Berl. Vas = Furtwängler, Beschreibung der Vasensammlung zu Berlin.

B. M. Bronzes = British Museum Catalogue of Bronzes,

B.M.C. = British Museum Catalogue of Greek Coins.

B.M. Inser, = Greek Inscriptions in the British Museum.

B.M. Vasca = British Museum Catalogue of Vascs, 1893, etc.

B.S.A. - Annual of the British School at Athens.

Bull, d. I .= Bullettino dell' Instituto.

Busolt = Busolt, Grischische Geschichte.

C.I.G. = Corpus Inscriptionum Graecarum

C.I.E. = Corpus Inscriptionum Latimarum

Cl. Rec. = Classical Review.

C.R. stead. Inser, - Comptes Rendres de l'Académie des Inscriptions

Dar. Sagl. - Daremberg Saglio, Dictionnaire des Antiquités.

Dittenb. O.G.I. = Dittenberger, Orientis Grusel Inscriptiones Sciertae.

Dittent, Syll = Dittenberger, Syllogo Inscriptionum Graecarum.

Έφ. 'Αρχ. = Έφημερίε 'Αρχαιολογική.

G.D.I. = Collitz, Sammlung der Griechischen Dialekt-Inschriften

Gern, A.V. = Gerhard, Auserlesens Vasenbilder,

G.G.A. = Göttingische Gelshrie Anzeigen

Hend, H.N. - Hend, Historia Numorum.

LG.=Inscriptiones Graceae.<sup>1</sup>

LG.A. = Röhl, Inscriptiones Graces entiquisimae.

Jahrh -- Jahrbuch der Deutschen Amhäologischen Instituta

Jahresh. - Jahreshefte des Oesterreichischen Archäologischen Institutes.

J.H.S. - Journal of Hellenic Studies.

Le Ras-Wadd. = Le Bas-Waddington, Voyage Archéologique.

Michel - Michel, Recueil d'Inscriptions greeques.

Mon. of J. = Monnmenti dell' Institute,

Müller-Wies - Müller-Wisseler, Denkmaler der alten Kunst,

Mus. Marbles = Collection of Auction Marbles in the British Museum.

Neue Jahrb. El. All. = Neue Jahrbucher für das klassische Allertum.

Neue Juhrb, Phil, = Neue Jahrbucher für Philologia.

1. = Inser, Attlese anno Eu adia vetustiores. LG

.. actatis quas est inter Eacl ann, et Augusti compara 11 = 11

netatis Romanas. III. =44 AX.

Argolidis. IV. = ar

Megaridia et Bocotians VIL = Granciae Septentrionalis. IX =

445 lusul, Maris Aegael praster Delum. XIL = 11 11

Italian et Simine. XIV =

The attention of contributors is called to the fact that the titles of the volumes of the second issue of the Corpus of Greek Inscriptions, published by the Prussian Academy, have now been changes, as follows :-

Niese = Niese, Geschichte der griechischen u. mukedonischen Staaten.

Num. Chr. = Numismatic Chronicle.

Num. Zeit. = Numismatische Zeitschrift.

Panly-Wissowa = Pauly-Wissowa, Real-Encyclopadie der classischen Alteriumswissenschaft.

Philol. = Philologus.

Ramsay, C.B. = Ramsay, Cities and Bishopries of Phrygia.

Rev. Arch = Revue Archéologique.

Res. Et. (ir. = Revue des Études Grecques.

Rev. Num. = Revne Numismatique.

Rev. Philal = Revue de Philologie.

Rh. Mus. = Rheinisches Museum.

Rom, Mitth. = Mittheilungen des Deutschen Archäologischen Instituts, Römische Abtheilung.

Roscher = Roscher, Lexicon der Mythologie.

T.A.M. = Tituli Asiae Minoris.

Z.f. N.=Zeitschrift für Numismatik.

#### Transliteration of Inscriptions.

- [ ] Square brackets to indicate additions, i.e. a lacuna filled by conjecture.
- ( ) Curved brackets to indicate alterations, i.e. (1) the resolution of an abbreviation or symbol; (2) letters misrepresented by the engraver.
  (3) letters wrongly omitted by the engraver.

(3) letters wrongly omitted by the engraver; (4) mistakes of the copyist.

< > Angular brackets to indicate omissions, i.e. to enclose superfluous letters appearing on the original.

Dots to represent an unfilled lacuna when the exact number of missing letters is known.

 - - Dashes for the same purpose, when the number of missing letters is not known.

Uncertain letters should have dots under them.

Where the original has iota adscript, it should be reproduced in that form; otherwise it should be supplied as subscript.

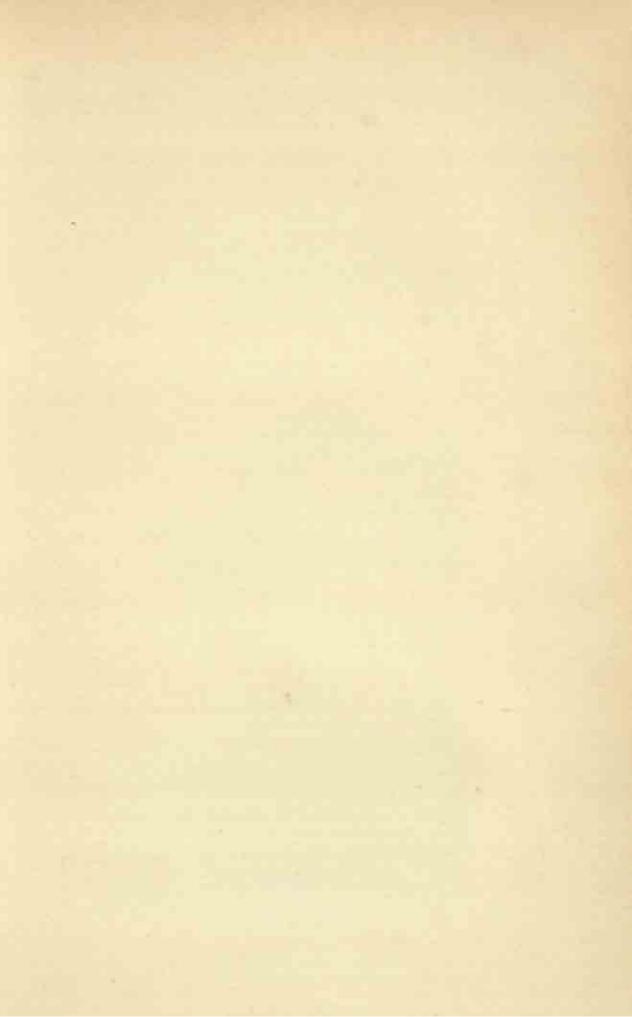
The aspirate, if it appears in the original, should be represented by a special sign, †

# Quotations from MSS, and Literary Texts.

The same conventions should be employed for this purpose as for inscriptions, with the following important exceptions:—

- ( ) Curved brackets to indicate only the resolution of an abbreviation or symbol.
- [[ ]] Double square brackets to enclose superfluous letters appearing on the original.
- < > Angular brackets to enclose letters supplying an omission in the original.

The Editors desire to impress upon contributors the necessity of clearly and accumtely indicating accents and breathings, as the neglect of this precaution adds very considerably to the cost of production of the *Journal*.



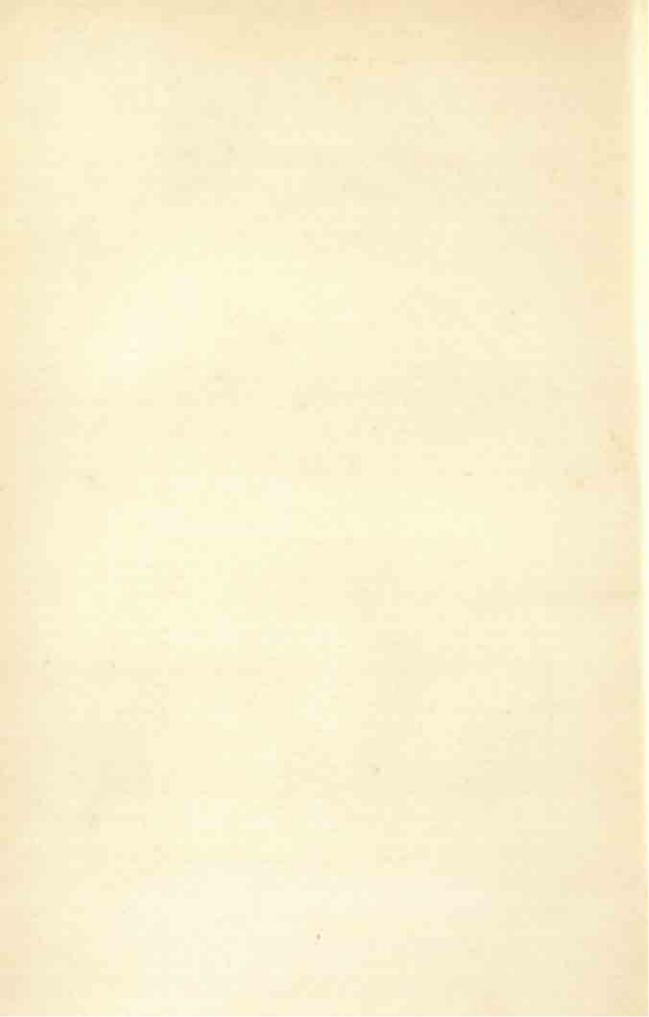


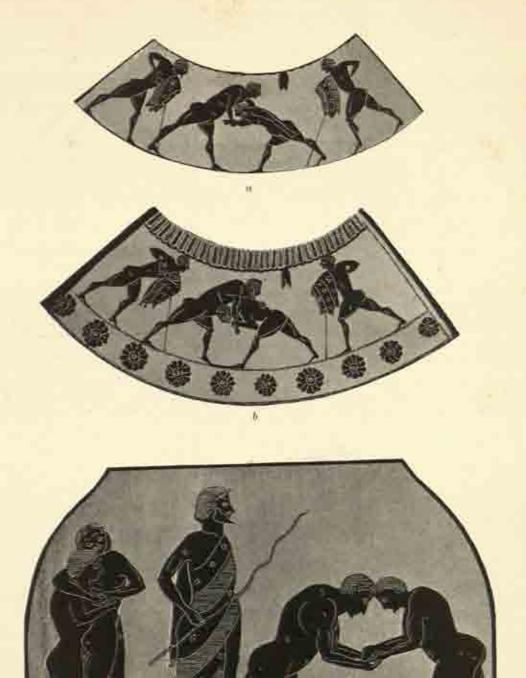




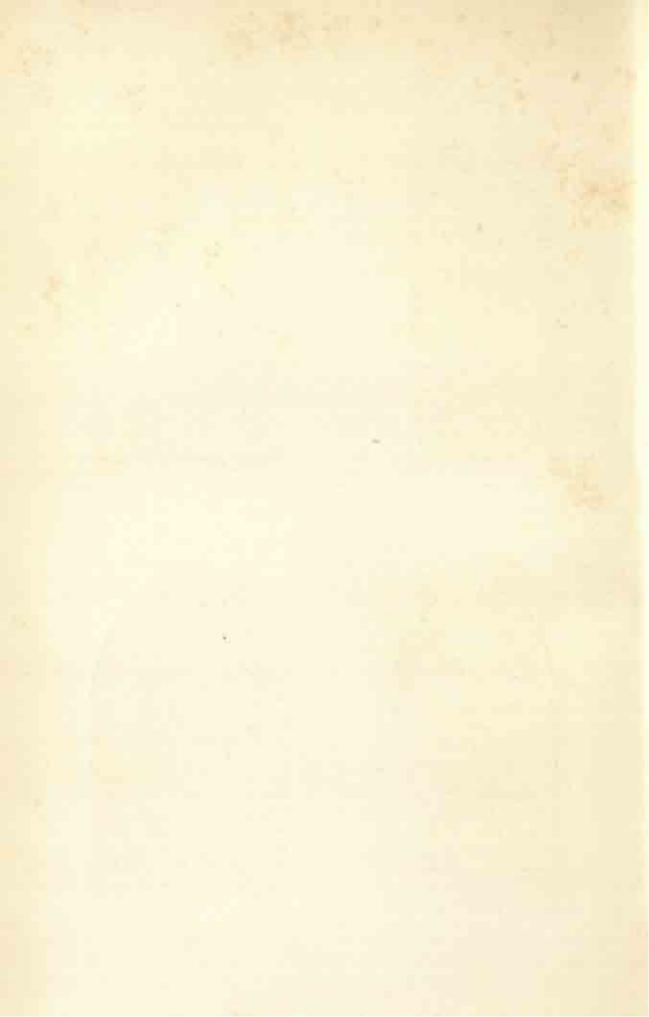
BRONZE GROUPS IN THE BRITISH MUSEUM.







BLACK-FIGURED AMPHORAE AT MUNICH.







2

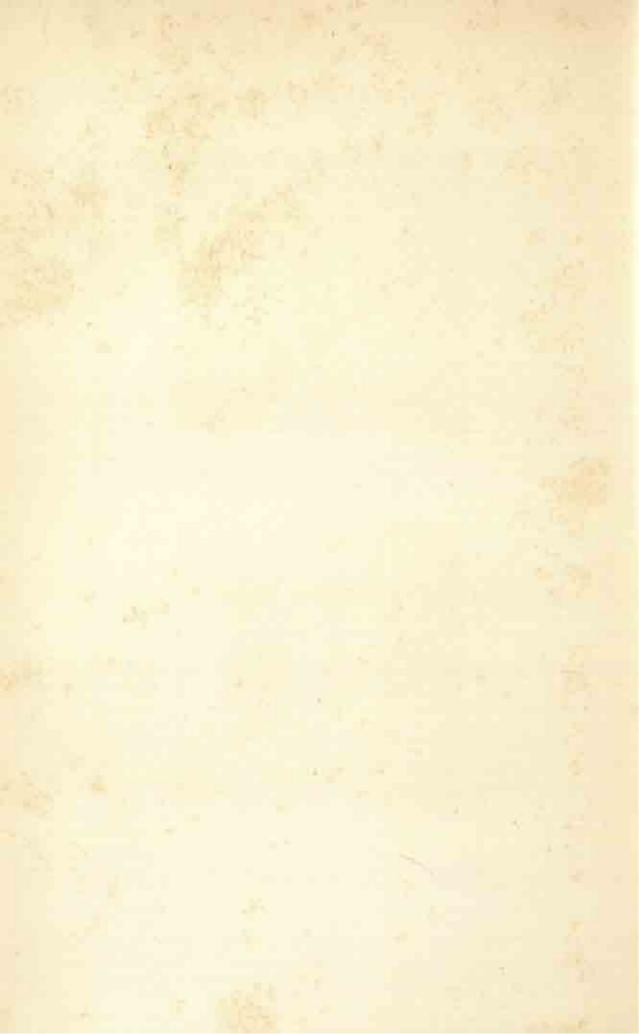




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2

PORTRAITS FROM THE FAYUM.



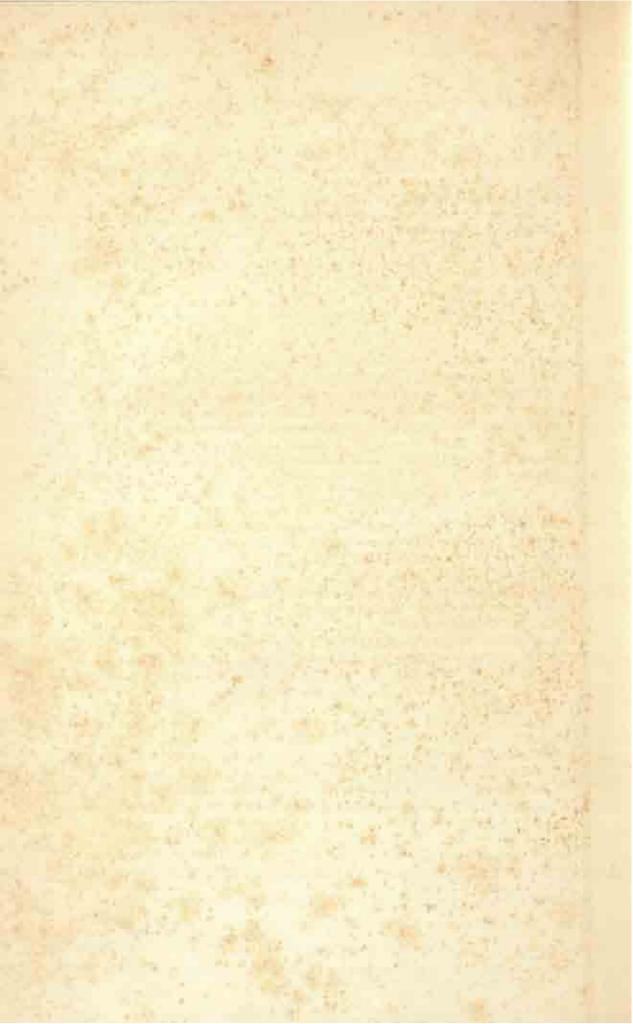






2

EGYPTIAN AND CRETAN SQUARE PILLARS





#### THE PEDIMENTS OF THE MAUSSOLLEUM.

Some years ago I ventured on a reconstruction of the Maussolleum, that was based on the principle of not overlooking the sculptured fragments in a monument of which the great renown was due, according to Vitruvius, to the work of the sculptors who were employed in its decoration: quorum artis emineus excellentia coëgit ad septem spectaculorum cius operis percentre famam. That it was never published is owing to the uncertainty I felt about the measures of the remaining architectural fragments, which I had not the means to control.

Now since F. Adler published his monograph on the Maussolleum,<sup>3</sup> which only came to my notice a short time ago, I may venture to indicate in how far I think his reconstruction, which in many respects does not differ from what I supposed, ought to be corrected in accordance with our texts and principally with the extant sculptural fragments.

Several of these, mostly it is true in very poor condition and difficult of access, are omitted in every reconstruction, or find a place which hardly provides them with any direct relation to the monument and which is without analogy in Greek architecture.

A basis with a horseman is certainly not unknown in the history of Greek art, and even a senatio occurs now and then as an isolated work, but these are usually separate monuments, for which a place is provided as well as may be in an often already overcrowded locality, not intrinsic parts of a well-planned scheme, as they might be in a modern construction.

The consequence of this is, that the fragment of the horseman has been quadrupled first and has even grown out into eight prancing warriors in the reconstructions of Fergusson and Adler; but on the other hand I miss in every one of them the boar and the ram, which appeal much less to the imagination.

A thorough publication of all the sculptured fragments of the Maussolleum, that are not in relief, is sorely wanted. As some of them are in an extremely mutilated condition a photographic reproduction would not do for all. The draped fragments Nos. 1048-1050 and 1061-1065 and the helmet, No. 1059, would certainly want a very conscientious draughtsman, working

<sup>+</sup> Viiruv. vil. 1, 12. H.S.—VOL. XXV.

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under the constant control of an archaeologist. Most of the heads, and the fragments of the animals, would allow of a photographic reproduction if it could be obtained.

But I do not think that it is absolutely necessary to wait till some English scholar will undertake this difficult but promising task, to draw some of the conclusions that may be deduced from the existence of these fragments, several of which could not find a better place than amongst pedimental sculptures.



Fig. 1.-Colossal Seated Figure From the Maussolieum.

The different size too of the diverse figures, varying from the colossal to life size, indicates such an employment, and may help to distribute each fragment to its relative place, nearer to the centre or the extreme corners of the composition. The colossal seated male figure, No. 1047 (Fig. 1), for example, would fit into or near the middle of a pediment and the helmet with the mask would suit the corner.

The colossal equestrian torso indeed would find its natural place in the centre of a pedimental composition. Analogies are not wanting. Of the

Heroon of Xanthos, the so-called Nercid monument, the left half only of the west pediment remains, but this shows just enough of the forelegs of a prancing horse to allow with absolute certitude the reconstruction of a horseman as principal figure in the centre of the composition. Of greater import still is the south pediment of the so-called sarcophagus of Alexander. where a horseman in Persian garments occupies the exact centre of the composition (Fig. 2). The likeness to the Manssolleum fragment is so close, that

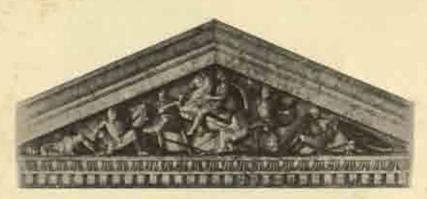


Fig. 2 - Sancophasts of Albeandem, From Sidon | South Penthest. (From Hazuly Bey and Reimsch.)

with exception of the position of the right leg the torso seems the exact counterpart of this figure. As a helmet standing on the ground recurs in this same composition and the fragment No. 1064 is supposed to have worn a cuiross, one would be inclined to think of a battle scene for this pediment. This however would hardly account for numerous other fragments that may not be neglected. First of all No. 1095, the anterior half of a panther (Fig. 3), broken off behind the shoulder." The animal springs up with a movement that affords a close analogy to the panthers hunted in the basement-frieze of the sarcophagus of mourners.-I have not seen the hindquarters and a paw mentioned by Sir Charles Newton as corresponding in scale. - There are half of the snout and both the feet of the forelegs of a wild boar at bay, which seem to allow of a reconstruction according to the south as well as to the north side of this frieze. Again there are fragments, which I have not seen, of a hound : part of the head, an arm, and a paw, mentioned by Sir Charles Newton.5 Nor can I give any further detail about the head of a lioness, presented by the British Government to the Imperial Museum at Constantinople" or 'part of the hindquarters of this or another lioness' found in the excavations.7

The presence of two or three or even more different wild animals in

This animal has grown rather too large tu my reconstruction by a mistake of the draughts-STREET,

<sup>\*</sup> Ralicornamo, Unidus, and Branchidas, it. p. 253. F.L. 4. 284.

<sup>5</sup> L = 281. \* 7. r. 989

the same hunting-scene is not improbable. The bas-relief of the short south side of the sarcophagus of 'Alexander' has only a panther, but the west side combines a lion and a stag; and the frieze of the sarcophagus of mourners, already mentioned, contains one bear, two wild boars, four panthers and five stags, not to mention the dead game that is hard to identify.



Fig. 3.—PANTURE FROM THE MACSOLLEUM:

I would therefore suggest that Maussollos himself, in the dress of a Persian Satrap, may have held, on a prancing horse, the middle of the pediment, attacking a lioness, supported on both sides by half armed attendants, hunting a panther and a wild boar. The fallen helmet may have

belonged to the corpse of a victim of this perilous chase.

There are even more remnants of animals amongst the Manssolleum sculptures than those already named: the body of a colossal ram, No. 1097 (Fig. 4), a foot and part of the hind leg of which were also found; the head, forehand, and right hind leg of a boar No. 1096, 1-3, hardly exceeding life-size; and the large hoof of a bull, which I saw amongst the remains in the vaults of the British Museum and which is mentioned by Newton as possibly the boof of an ox. The ram and the boar are not in violent action; they either stand still or move slowly. It is of course only a suggestion, but the combination of boar, ram, and bull remainds me of the Roman succelaration and makes me think that that pediment, which must have held the colossal seated figure, may have represented an offering scene with precisely these animals.

As nothing, as far as I am aware, is known about Carian rites, this

must of course remain a mere conjecture, but that such a scene would not be inappropriate to a Heroon is shown by that of Xanthos, where an offering scene occurs in the lesser frieze.

I do not wish to lay much stress on the important place taken by the victims in the Parthenon frieze, which, though in the strictest sense, taken as a whole, an offering scene, is of quite a different character. On the other hand I would press the analogy of three contemporary pictures. We know little or nothing about the meaning of the famous sacrifice of bulls by Pausias, but, rather than some mythic or heroic subject, I would expect a political picture akin to Euphranor's work in the Stoa Basileios at Athens. Of Aristolaos too, the son of Pausias, a sacrifice of bulls is mentioned, and I cannot help thinking that all the figures mentioned by Pliny: Epameinondas, Pericles, Media, Virtue, Theseus, and the image of the Attic Demos, must



FIG. L.—COLOSSAL HAM FROM THE MAUSSOLLECH.

have belonged to one single composition, the centre of which was the boun immolatio. Further, Apelles is known from Herondas (iv. 59 f.) to have painted the sacrifice of a ball for the Asklepieion of Kos, probably. Later Roman reliefs, as that of the Ara Pacis, the alter of Domitius Ahenobarbus, or the triumphal arch at Susa, may perhaps retain some distant reminiscence of these earlier compositions.

At all events the boar and the ram are not intended to be seen close at band. The ram gains immensely in the reduction of our figure and would certainly, at the height of the pediment, have rendered admirably in marble its woolly fleece. Thus seen it seems not unworthy of Skopas. I will not say too much of the style of the colossal seated figure, our Fig. 1, as I have not had the occasion to compare it thoroughly with the Atalanta from Tegea (B.C.H.

<sup>\*</sup> Not. Hist, EXXV. 137.

<sup>\*</sup> Furtwängler, Interment, p. 36, d.

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xxi. 1901, Pl. VI.), but I feel sure that there is nothing, at least in the treatment of the drapery, that would be in the way of our theory. The same holds good as to the Macnad in which Prof. Treu has recognized the most famous work of Skopas, 10 The strong lines that mark the folds of

our torso speak even more clearly in that work

To which of the pediments the different heads and torsos may have belonged, it is hard to guess. The only presumption that presents itself is that, at all events, the female heads can hardly come from the hunting-scene, and will therefore belong to the east pediment, that of Skopas. Their style, as far as I see, affords no objection. No. 1051 is already described as 'in the manner of Skopas' by Mr. A. H. Smith in his Catalogue.

I feel less sure about No. 1057, a male head, wearing the kyrbasia, but as this headdress is much worn in the hunting-scenes I should be inclined to

assign it to the west pediment, that of Leochares.

I am perfectly aware of the objections that have been made to the theory of Prof. Loescheke, "who seeks to find a reminiscence of the conatio Alexandri at Delphi (part of which, according to Phitarch, "was by Leochares), in a relief from Messene, but I do not think them of cardinal importance. Nor does it escape me that this work, the other part of which was said to be by Lysippos, was not erected by Krateros himself, but by his son Krateros whom he left an infant when he died in 32L." But I think the extraordinary affinity of the horseman in this relief with the torso of the Maussolleum goes a good way to demonstrate that Prof. Loescheke was on the right scent and that we are not wrong in ascribing the equestrian fragment to Leochares."

At least Lucian, who makes the shade of Maussollos say: το δε μέγιστον, δτι έν Αλικαρνασσώ μνήμα παμμέγεθες έχω έπικείμενον, ήλίκον οὐκ ἄλλος νεκρός, ἀλλ' οὐδὲ οὕτως ἐς κάλλος ἐξεσκημένον, ἵππων καὶ ἀνδρών ἐς τὸ ἀκριβέστατων εἰκασμένων λίθου τοῦ καλλίστου οἶου οὐδὲ νεών εῦροι τις ἀν ράδίως, would hardly have spoken thus of the quadriga and the small figures only if the really first rate sculptures had stood around the monu-

ment instead of forming an intrinsic part.

I have thus far abstained from the question whether a reconstruction of the Maussolleum would allow of the introduction of pediments in the architecture, though they are suggested, as has been observed, by the brevius a frontilus of Pliny. They are lacking in all projects of restoration which I have seen, save in that of Mr. Oldfield, and I cannot invoke him to my aid as his pediments are too small to contain the groups I propose, and as I could never accept the plan of his work. Adder, I think, has said all that is wanted to disprove his ingenious proposal.

But there is nothing which hinders us from introducing two pediments

in Malanger Perrol, p. 817.

<sup>1)</sup> July 16, (1888), p. 189

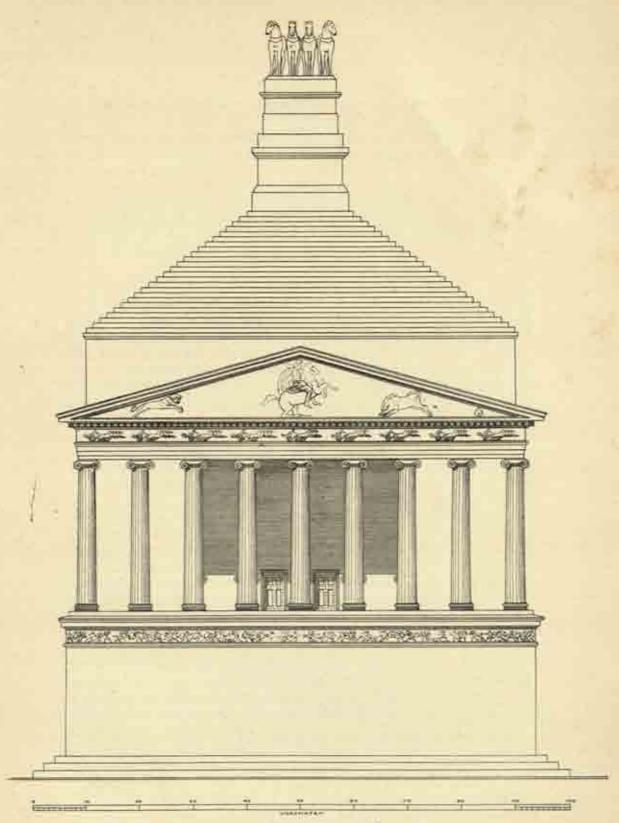
<sup>28</sup> Alex. 40.

<sup>&</sup>lt;sup>18</sup> E.C.H. 2xi. (1897), p. 598; Paul Perdrizet, J.H.S. xiz. (1899), p. 273.

is M Perdrizer must surely be wrong in

finding a replica of the sensite in Mr. Evans' intaglio. The words of Plutarch: vol Saraktes ve Accor: curecture a fallon king.

<sup>16</sup> Archaeologia, liv. (1895), (c. 273.



FOR A.—SUGGESTED ELEVATION OF THE MAUSSOLERUM.

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in Adler's reconstruction, if we may be allowed to elevate the attica, which he rightly assumes, by some feet (Fig. 5). This would only, I think, be to the advantage of the building, if compared with antique analogies. We ought then to make it 15 ft. high, 10 so that with the 24 steps of the pyramid, that are about 22½ ft., the height equal to the pteron of 25 cubits, that is 37½ ft., would be obtained.

I would further suggest on the top of this pyramid a basis, the meta of Pliny, of 22½ ft., carrying the quadriga with the statues 17 of 12½ ft. or of 25 ft. and 10 ft. without them. Thus only 30 ft. out of the 140 ft. would remain for the solid basement, which I hold is an enormous advantage over most of the proposed reconstructions, as it would bring the sculptured frieze nearer to the eye of the spectator.

If we aid to the suggested measures of 30 ft. for the basement and 37½ ft. for the pteron, 12½ ft. for the pediments, with a tymponum of 10 ft. high, we find 80 ft. to the top of the pediment, the exact measure given by Hyginus as that of the Maussolleum. The cypher of Vibius Sequester of 180 ft. is then a contamination of the values given by Pliny and Hyginus, and

this looks more likely than the double error accepted by Adler.

And that of a building like the Maussolleum the height should be mentioned without the surmounting spire is no wonder. Who would think of recording the total height of a Gothic church, with a spire on the cross vault, like that of Haarlem or Alkmaar, without including the tower expressly, as Baedeker does, just as well as Pliny! About the palace at Amsterdam, the ancient townhouse, which allows of a closer comparison, Baedeker expresses himself in this guise: 'It measures 33 metres high and the cupola . . . is 51 metres.'

As to the high measures I have accepted for the basis of the quadriga, I feel sure that they are corroborated on all sides, notwithstanding that I failed to find a form pleasing to the eye in following the suggested restoration of the Lion-tomb. My arguments are first the words of Pliny who speaks of a metae cacamen, then the comparison of analogies as the Lion-tomb at Cnidus, but especially the later large works that show influence of the Mausselleum as the tomb of Hadrian and the Tropacum of Trajan at Adam-klissi. Pullan's restoration of the Lion-tomb and that of the Mausoleum of Hadrian by Hulsen after Borgatti is are more or less hypothetical, and thus open to criticism. The most convincing parallel, however, is the Tropacum Trajani, as it has been drawn by Prof. Reichhold after the reconstruction of Prof. Niemann, corrected by Prof. Furtwängler in a way that has been accepted by Prof. Benadorf. The support of the trophy

When speaking of feet I mean Greek feet of 0.328 m., not English. rather than in the perihelos wall. \*\* \*Bom. Mitth. vi. (1891), 138.

" Jakresh, vi. (1968), p. 249, Fig. 182.

The statues, if not in the quadriga, may have either shood in the calls, or in the cast pediment or even perhaps on the long sides against the attica, above each column a starse. I doubt very much whether the lions could have stood there, as Adler makes them,

Das Tropason von Adamilius und previscial-Römische Kunst, Abhandlaugen der k. baye, Abademie der Wiss. I. Cl. axii. Bd. iii. Abt. München, 1803, Pl. I.

there is at least a fourth part of the whole monument, with the trophy as restored it certainly is more than half of the entire height.

Returning to the earlier analogies, it seems worth while to compare the proportions of the Lion-tomb, as restored by Pullan, with those of the Manssolleum. I have to that effect reduced the measures of this monument to a modulus of The.

The greatest divergency is in the proportion of the columns and order to the pyramid and this of course is a result of the smaller plan, that requires a lower attica and less steps to let the meta rise out above the order when seen from a short distance.

I feel, however, serious doubts about the usual interpretation of the word meta here. The form designated as meta is always conic, as in the meta sudans, a pile of wood, a hayrick, a sugar-loaf, a trained boxtree, a cypress, the shadow of the earth, or a hill, as in these words of Livy: "I pse collis est in modum metas, in acutum cacumen a fundo satis lato fastigatus, that seem to illustrate the text of Pliny."

As this shape would never do for the basis of a quadriga I suspect Pliny once more wrongly translated a Greek word. This must of course have been  $\sigma \hat{\eta} \mu a$ , which means goal as well as tomb. The idea of the architect will have been to combine the three elements of a heroon, a pyramid, and a tomb into one single new form.

We have found till now only the facts about the sculpture and the interpretation of Pliny's words pleading for pediments, and we ought to look out for analogies. We might of course find these in the heroon of Xanthos (the so-called Nereid-monument) as well as in the Pisidian tombs of Tib. Cl. Agrippina Aurelia Ge and Aurelia Artemis if the pyramid and meta were not lacking there as well as the attica. On the other hand the existing monuments, that with the pyramid combine an attica, show no trace of pediments. It is precisely the combination of pediments and attica that we must look for. There is but one monument of Greek art of this period that shows a similar combination, that is the sarcophagus of the mourners (Fig. 6), where the unexplained parapet suggests the influence of a work showing the disposition we propose, as well in this astounding peculiarity as in the basement that supports the whole and makes it akin, not to the ancient temples, but to the group of sepulchres, the most glorious of which is the Maussolleum.

Moreover, the combination of pediments and attica is not rare in Roman

<sup>31</sup> XXXVII. 27.

<sup>#</sup> Forcellini, &v. sueta:

<sup>=</sup> Heberday und Wilberg, Jahresh, iii, (1909), 117.

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architecture, especially in the triumphal arches, of which that of Tiberius at Orange is the most splendid example. If we knew the prototype of the Roman triumphal arch, which, as Dr. Paul Graef<sup>24</sup> suggests, ought to be sought in the gates or porches and the tetrapylon of the Hellenic city, I have no doubt we should find more material there, as the propylaca of the Acropolis at Athens show already the embryonic beginning in the superposition of the pediments.

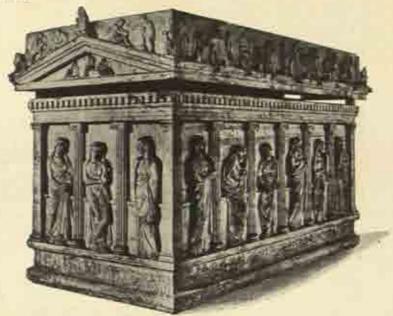
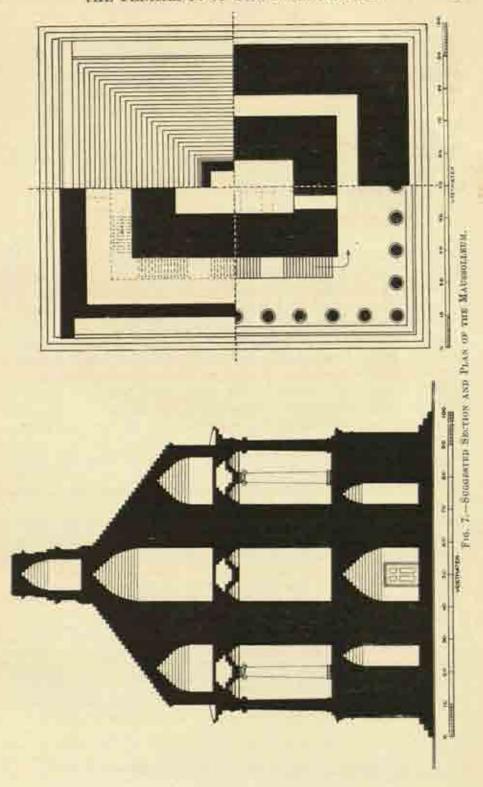


FIG. 6.- SARCOPHAGES OF THE MOURNERS, FROM SIDON-

I have expressed the measures of my reconstruction in Greek feet instead of giving the values as calculated by Adler in metres, and I think the following specification of Greek feet reduced to metres will show, by comparison with the figures of Adler, the difference to be so small that it may be neglected. I will add another consideration. The figures expressed in feet show fractions. Some of these will disappear when reduced to cubits, but all of them cannot be reduced to cubits any more than the whole sum of 140 feet. Still it is easy enough to obtain whole numbers if we are allowed to accept a modulus of 2½ and I have introduced in the first column this experiment.

	Modulos of 2	-	Genile foot.	Marrie.	Measures of Adher
Holo	10 00 0	24	10 or (15)	3:28 ( mr ( 4:10 5:20 ( mr ( 7:58	4.95
Pyramid. Attica:	9	15	22 15	7-88 4-92	7.44
Pteron Basement	13	15	374	12:30	12-27 (11:50)
1 Seeminger 1	-	12	30	9:84	
	56	36	140	(5·9±	

<sup>24</sup> Hammalster, J.v. Trymoph-wall Edvenloyen, p. 1872.



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I should even like to ventilate the question, if it is really impossible that the height of the pteron should be so divided, that 7½ would fall to the order and 30° to the columns. That would make for these 9.84 m. instead of the calculated height of 9.69 and for the order 2.46 instead of the measured 2.58. The introduction at this place of the frieze of charioteers, which I would still prefer, 25 would only bring with it a reduction of 0.02 and would leave a difference of 0.10 and I do not insist.

I find a remarkable confirmation of my reconstruction in the proportions I have unwittingly come to. The height of the main building of 80' falls into two large sections: the basement of 30' and the superstructure of 50'; that is to say they stand in the relation known as the sectio aurea. The same division recurs if we look to the whole construction, where we again find the sectio aurea in the pyramid and meta that rise 50' above the 80' of the main building and bring the entire work that bears the quadriga to 130'. So that the real standard of this work would be the height of the quadriga of 10' whereof the modulus we found would be the quarter. It is hardly chance that would lead to proportions so generally admired in architecture.

I cannot abandon this subject without proposing one more problem.

Adler deals rather cavalierly with the patet ab austro et septembrione sexagenos ternos pedes of Pliny and his correction of this measure, written in full letters in the manuscripts, into 89 feet is altogether arbitrary. Adler calculates the distance from the axis of one column to the other at 3.34 m. If we again substitute for this value the nearest in Greek feet we obtain 10' (3.28) which makes hardly any difference and is as we have seen the standard measure of the whole monument. Thus 63' would nearly correspond to 7 columns with the 6 intercolumnia, the column having a largest diameter of 1'14 nearly 31'. May we not be allowed to take this for the length of the cella! The front sides that were shorter, according to Pliny's brevius a frontibus, ought then to have been only 43'. The nine columns in front would take from axis to axis 80' (equal to the height of the pediment top) and the eleven columns on the long sides 100'. This would bring us to a sum of 360'. Ten feet from these axial lines to the outside of the basement on all sides, would make the sum of 440' named by Pliny for the circuit (Fig. 7).

whole multiplied by the smaller. This never can be expressed in whole numbers, but is approached by the following series: 1:3=2:8=8:5=6:8=8:33=13:21=21-34=34-55=55:89=89:144 arc., wherein each fourth number is the sum of the preceding first and second. It is evident that figures from 8-13 are in use here, not the higher series from 34 till 144. Which shows once more that not single foct, but the shundard of 10 ft, is in use here.

The chariot more may of course have occupied the long sides, and the fronts may have held some other subject that would be better adapted, as the preparations for the race and the crowning of the victor. Still the archaistic relief, with Apollo, Artemia, and Leto, in the Villa Albani, the Berlin Mussam and the Louvre (Schreiber, die Hillenistischen Relieffelder, xxxiv, xxxv, and xxxvi) have a chariot race as well on the front as on the side of the temple sen in the background.

I remind my readers that the sectio surved divides a length in such a way that the quadrate of the larger part is equal to the

This is what the Greek author failed to see who thought he was very clever in reducing the 37% of the preven into 25 culius.

This means, however, that the basement would measure 120' by 100', i.e.  $39.36 \times 32.80$  m, instead of  $38.91 \times 33.99$  m.  $(127 \times 108$  English feet) as given by Adler. But as he must needs have his measures from the rather untrustworthy plan of Pullan, this small difference of 0.45 m, and 0.29 can hardly be of any importance.

The plan would certainly gain by the proposed disposition in loftiness. Strong cella-walls perhaps 13 thick, would leave a chamber of 37 × 17, and bear the bulk of the weight of the pyramid, the meta, and quadriga, and a wider pteron would better permit the approach by a flight of stairs.

The form proposed is akin to the pseudodipteros, which Vitruvius so tells us was first used by Hermogenes as an octostylon, as we know in the temple of Artemis at Magnesia. But this is certainly no objection. The Maussolleum is enneastylon and then Vitruvius is speaking at this place about the temple and would not have introduced a sepulchre in this context. It is further known that the pretended innovation must have been only in detail or in the marble construction, as the type occurs as early as the temple G at Selimus, of course with a wooden roof. So rather than an objection the work of Hermogenes provides a parallel to the plan proposed for the Maussolleum.

The large distance which has to be covered over the pteron is no insurmountable difficulty and we may accept in principle a solution akin to that proposed by Pullan. (Pl. XXI. fig. 1.)

As to the bulk of the pyramid I would propose to cover those parts, that must have been hollow to lessen the weight, by overlapping stones,

building a false arch.

Be this however as it may, the loftier the construction looks, and the weightier the pyramid appears to the eye the better it suits the words of Martial 30

> Aëre nec vacuo pendentia mausolea Laudibus immodicis Cares ad astra ferant.

J. Six.

AMSTERDAM:

through the attica.

™ Epigramm. L. L.

Mr. van Baion, who has drawn my plans for me, has indicated the stairs in the basement with dotted lines in the horizontal section

#### WRESTLING.

L

### A .- The Nature of the Evidence.

THE popularity of wrestling among the Greeks is proved by the constant use of metaphors from this sport and by the frequency with which scenes from the wrestling ring appear, not only in athletic literature and art but also in mythological subjects. Despite the changes in the spirit of Greek athletics caused by the growth of professionalism, which affected wrestling and boxing more perhaps than any other sport, the popularity of wrestling whether as a pastime or as a spectacle remained unabated. On early black-figured vases Heracles is constantly represented employing the regular holds and tricks of the palaestra not only against the giant Autaeus, but against monsters such as Achelous or the Triton, or even against the Nemeau lion, and centuries later we find Ovid and Lucan describing these scenes in language borrowed in every detail from the same source.

Hence the evidence at our disposal is more abundant and more varied than in the case of any other sport, and its interpretation is proportionately difficult. An obvious difficulty lies in the wide diversity of the evidence as to time and place. The majority of the monuments are not later than the fourth century E.C., but geographically they extend from Smyrna and Alexandria to Rome and Etruria, while the scattered records of literature extend from Homer and Pindar to Quintus Smyrnaeus and Nonnus, the bulk of the descriptive evidence being found in the Greek and Roman writers of the Empire. We might have expected that evidence so varied would reflect the local variations in style which we know to have existed," and the changes which so long a period must have introduced, and that it would be impossible to come to satisfactory conclusions. But though we must constantly bear in mind the possibility of such variations, we shall find that the difficulty is more apparent than real, and that the agreement in the evidence is extraordinary. This result may be due partly to the close connexion of athletics with religion, which doubtless tended to preserve unchanged the traditional laws governing the great athletic festivals, and partly to the conservatism of artistic types, and to the imitative character of later art and literature, as a consequence of which the descriptions of Roman poets probably reflect the earlier traditions of Greece more closely than the practices of their own day and country. The chief change which we can observe is the increasing popularity of the pankration and its methods as opposed to the more skilful and less brutal methods of true wrestling.

A more real difficulty is found in the technical vocabulary of Greek wrestling, which was as strange and varied as that of our own day. Many of the terms explain themselves; others, especially those connected with the names of places and persons, defy interpretation. We have some hints as to the styles in favour at Sparta and Argos, but the Thessalian chip, the Sicilian style, the chip of Phrynichus, are as unintelligible to us as the half-nelson, or Cumberland and Westmorland, will be to archaeologists of future ages. Almost as puzzling and yet more tantalising on account of the apparent simplicity is the technical use of common words such as βάλλω and its compounds. Scholiasts and lexicographers afford as little assistance in these cases, the only explanation they often vouchsafe for wrestling terms being εξανατάν, and we can only conjecture their meaning by careful comparison of the few passages in which they occur.

In the present paper I propose to consider the conditions and general principles of Greek wrestling, reserving for my next article the discussion of the various attitudes, grips, and throws adopted by the Greek wrestler. For our knowledge of the latter we are chiefly indebted to the vase-painter; at

present we are concerned for the most part with literary evidence

# B .- The Oxyrhyachus Papyrus and the Teaching of Wrestling.

The most important recent contribution to our knowledge of Greekwrestling is the papyrus of the second century A.D. published by Messrs. Grenfell and Hunt.<sup>2</sup> It contains instructions for a wrestling lesson, and throws an interesting light on the methods of Greek training. The various holds and throws appear to have been taught as a kind of drill to one or more pairs of wrestlers. Two interesting parallels are quoted by the editors, a curious passage from the Asians of Lucian illustrating the erotic symplegma and an epigram from the Anth. Pal. XII, 206 consisting of a dialogue between the instructor and the pupil.

The passage from Lucian contains a multitude of wrestling metaphots but being mostly connected with the ground wrestling of the pankration they do not concern us at present. The epigram is very instructive; the

first couplet contains the trainer's orders

ην τούτω φωνής, τὰ μέσον λαβέ καὶ κατακλίνας ζεύγνυε καὶ πρώσας πρόσπεσε καὶ κατέχε.

The pupil who is apparently younger than his opponent protests that this is too difficult

<sup>7</sup> Ox. Pap. iii. 466,

Lucian, At. v. 9. Cp. Aristoph, Par 895, Av. 442, and the expressions avanturerday,

salmonday: Martial xiv. 201, Spetenins Domit. 22. In all these cases the metaphors are from the paukration rather than from true wrestling.

οὖ φρονέεις, Διόφαντε, μόλις δύναμαι γὰρ ἔγωγε ταῦτα ποιεῖν παίδων δ' ἡ πάλη ἐσθ' ἐτέρα.

And the trainer replies by telling Cyris, the other pupil, to pretend to be in difficulties and allow his opponent to make his attack, offering only a passive resistance.

> όχλοῦ καὶ μένε, Κῦρι, καὶ ἐμβάλλοντος ἀνάσχουπρῶτον συμμελετᾶν ἡ μελετᾶν μαθέτω.

Two points deserve notice here. The system of training was progressive, there were special rules for boys and men. Secondly, in this method of teaching the stronger and more experienced must help the weaker. πρῶτου συμμελετῶν ἢ μελετῶν μαθέτω. This principle of cooperation in antagonistic exercises is a fundamental principle of the remarkable system of training in Japan known as jiu-jitsu. It is arranged beforehand which of the opponents is to win, and the other offers just enough resistance to benefit his adversary to the utmost.

#### C .- Heats: the Bye.

Competitions in wrestling, boxing, and the pankration were conducted by the Greeks in the same manner as a modern tournament. Lucian's description of the method of drawing lots for the ties at Olympia is well known. Lots marked in pairs with the letters of the alphabet in succession and corresponding to the number of the competitors were thrown into a silver helmet sacred to that purpose from which each competitor in turn drew a letter. In case of an odd number there was only one lot marked with the last letter used. Thus with an entry of seven there would be two A's, two B's, two I's, but only one  $\Delta$ , the drawer of which was the bye or  $\hat{\epsilon}\phi\hat{\epsilon}\delta\rho\sigma$ . After each round there was a fresh draw conducted in the same way.

The number of competitors varied. Sometimes a famous athlete would be allowed a walk-over, in which case he was said to win ἀκονιτεί. Dromeus of Mantinea won such a victory in the pankration in Ol. 75, for the first time on record, says Pausanias. In an inscription at Olympia enumerating the victories of the Diagoridae of Rhodes, Dorieus is mentioned as victorious πόξ ἀκονιτεί. A well-known epigram on Milo describes a similar victory, but such cases were rare, and the evidence shows that as a rule there were from five to twelve entries, requiring therefore three or four rounds. Thus Pindar describes the pankratiast Alcimedon and the wrestler Aristomenes as each of them victorious over four rivals, that is, in four rounds. Lucian in the passage referred to above mentions from four to twelve competitors, and the

<sup>4</sup> H. J. Hancock, Japanese Physical Training,

<sup>\*</sup> Hermiten, 40.

<sup>\*</sup> Fans vi. 11, 4.

<sup>\*</sup> Inwhrift v. Olymp. v. 153.

<sup>\*</sup> Anth. Pal. xi. 316.

<sup>\* 01.</sup> viii. 90, 1» τότρασι» παίδων ἀπεθήκατο γνίστε | νόστου έχδιστου.

<sup>10</sup> Publ. viii. 81, vérpas: 8 laveres épôfes ougareson

evidence of various Olympic inscriptions agrees with such an estimate. A fourth century inscription on Xenocles 11 speaks of him as

άπτης μουνοπαλάν τέσσαρα σώμαθ έλων.

dπτής appears to be equivalent to ἀπτώς, 12 and μουνοπάλης 13 is used in contrast to the pankratiast of the wrestler pure and simple, to whom it would be an especial distinction never to have been thrown in any round or any bout.

A later inscription on the boxer Philippus 14 tells us that he

τέσσαρας εύθεία παίδας έκλινε μάχη.

Lastly a long epigram on Ariston, who won the pankration in Ol. 207, talls us that there were seven competitors

έπτα γαρ έκ παίδων παλάμας μόνος ούκ ανέπαυσα

and that Ariston himself was victor in three rounds

τρίσσα κατ' άντιπάλων άθλα κονεισάμενος.

Ariston claims it as a special merit that he never had the advantage of a bye, but was drédecos

οῦ γὰρ ἐν εὐτυχίη κλήρου στέφος άλλ' ἐφεδρείης χωρίς ἀπ' "Αλφειοῦ και Διὸς ἡσπασάμην.

A competitor who had drawn a bye must have had a great advantage in the next round over a less fortunate rival and the crown must often have depended on the luck of the lot. It is to such an accident that Pindar refers at the close of the Sixth Nemean ode when he says that Alcimidas and his brother were deprived of two Olympic crowns by the shapes wpowerfs.

The importance of the bye is yet more clearly demonstrated by an inscription of the reign of Trajan in honour of Ti Claudius Rufus of Smyrma. It describes how having undergone a strict course of training under the eyes of the Hellanodikai he gave an exhibition in the games worthy of Olympian Zens, and of his own training and reputation. For though ἀνέφεδρος he conquered the most formidable opponents in the pankration, and in the final tie, though matched against one who had drawn a bye (ἐφεδρείαν λελογχότα), he kept up the struggle till nightfall and made it a draw. The Eleans in consequence passed a special decree allowing him to erect a statue with an inscription commemorating this drawn match which was as honourable as a victory: τῆς ἰερᾶς ἡν μόνος ἀπ' αἰῶνος ἀνδρῶν ἐποίησεν. The expression ἡ ἰερά appears to have been used for a dead heat or a drawn match because, in such cases, the crowns were dedicated to the god, a practice further

<sup>&</sup>quot; Inschrift, v. Olymp., 164.

ii Cp. 1b. 183. Similarly in Phlegon's list of Olympia victors for Ol. 177, 'lσίδωρος 'Aλεξπεδρεύς πάλης άπτωτος περίοδος.

ii Cp. Pans, vi. 4, 6, upigram en Chilon = H.S.—VOL, XXV,

Anth. Pal. App. 1. 192 and Bacchylides XII 8

<sup>24</sup> Instar. v. Olymp. 174.

<sup>18 76 225 226</sup> 

<sup>14 16. 54</sup> 

illustrated by another inscription, unfortunately much mutilated, detailing the arrangements for the games of Sebaste at Naples,

όσα δ' ἀν τῶν ἀθλημάτων ἔρημα ἡ ἰερὰ γίγνεται. 17

On Panathenaic and other vases representing boxing and wrestling competitions a third athlete is generally present, who is usually described as an έφεδρος. I venture to doubt whether he is correctly so described. The very frequency of this addition suggests that the vase painter thus indicates the general character of the competition as a tournament rather than the presence of an actual ἔφεδρος.

#### D .- The Shamma and Various Details as to the Wrestlers,

The wrestling ground was called the skamma, a term which, as has been explained in a previous article denotes a place dug up, levelled, and sanded so as to afford a smooth and soft surface.15 In the palaestra the skamma occupied the open space in the centre, and for actual competitions a similar space must have been provided in the stadium, probably in the semicircular σφενδόνη where such existed. In Heroic times wrestlers and boxers were a loin-cloth or περίζωμα, 10 which appears occasionally on black-figured vases, 20but all clothing appears to have been discarded before the fifth century. Sometimes indeed we see wrestlers provided with caps protecting the ears, άμφωτίδες," but their use was apparently confined to boys and to practice and was not allowed in open competitions. For similar reasons wrestlers. always wore their hair short.22 Before wrestling they not only oiled their bodies but rubbed them with sand, a service which Lucian describes them as performing for one another.22 The object of this process, on which Lucian waxes eloquent, was partly to harden the skin and check the perspiration, partly to enable the opponents to obtain a firm hold of one another.24

# E .- The Differences between Wrestling and the Pankration.

In the Greek athletic festivals wrestling, besides being a separate event in the programme, formed part of the pentathlon. As far as we know the wrestling in both cases was governed by the same rules. But wrestling was also one of the elements in the pankration, and in order to decide whether any particular scene or description belongs to wrestling proper or to the

<sup>27 25, 58, 1, 17.</sup> Other instances of this phrase and a full discussion of 12 will be found in the notes on inscription 54 by Dittenberger and Pargold.

<sup>11</sup> J.H.S. 1904, p. 78.

<sup>11</sup> Ham. H. xxiil 683, 700; Thue, l. 6,

E.g. Mus. Greg. xvii. 1, a; v. Scherer, De Olympionteurum station, p. 20.

H Panastius kylis, Arch. Zeif. 1878, 11;

Krause, p. 517, n. 20.

<sup>=</sup> Philostratus, Inc. ii. 22; Eurip. Banchue, 455; Plut. Arad. ii. 3, 6.

P Cp. Ovid, Met. ix. 35; Stating, Theb. vi. 847.

M. Annehorais 2, 28, 29; Plut. Symp. iv. at pir yip valuisrus inibolal nal infers nonigrafitare.

pankration it is important to realise clearly the distinction between the two events.

The first and fundamental difference is that the wrestler merely sought to throw his opponent, victory being decided by the best of three or five bouts, whereas the pankratiast's object was by any lawful means to force his adversary to acknowledge himself defeated, and for this purpose one bout only was necessary. This distinction enables us to decide at once that the descriptions of Ovid, Lucian, Statius, and Heliodorus refer not to wrestling proper but to the pankration, which appealed so much more to the debased taste of the Roman populace.

A throw not being sufficient in the pankration, the struggle was continued on the ground, and we find a distinction made between δρθή wάλη, the very name of which proclaims the necessity of keeping on the feet, and ground wrestling, called by the Greeks κύλισις οι ἀλίνδησις, which was confined to the pankration. I hope to show that in the former it was essential to keep on the feet and that a wrestler who touched the ground with his knee or any part of his body except the feet was considered thrown. Hence, whenever we see the struggle continued on the ground, we may feel sure that the pankration and not true wrestling is represented.

Moreover, hitting and kicking were allowed to the pankratiast, and these provide an additional test for distinguishing him from the wrestler who, as has been already noticed, is therefore described as μονοπάλης. Probably we may place in the same category seizing an opponent by the legs, but even without this we have sufficient tests.

The distinction between the pankration and wrestling on the one hand and boxing on the other is nowhere more clearly stated than in Theocritus xxiv. 110

> όσσα δ΄ ἀπὸ σκελέων έδροστρόφοι 'Αργόθεν ἄνδρες άλλάλους σφαλλοντι παλαίσμασιν, όσσα τε πύκται δεινοί ἐν ἰμάντεσσιν, ἄ τ΄ εἰς γαῖαν προπεσώντες πάμμαχοι ἐξεύροντο σοφίσματα σύμφορα τέχνα.

The imis or boxing thong is the characteristic of the boxer, ground wrestling of the pankratiast, the throw of the wrestler.

In this connexion it is worth while to recall the fact that wrestling at all events in the early days before it was corrupted by professionalism, was free from all suggestion of that brutality which has often brought such discredit on one of the noblest of sports. Tradition represented Palaestra is the daughter of Hermes as the inventor of the art, and Theseus to whom the rules of wrestling were ascribed is said to have learnt them from Athena herself. Grace and skill were of far more account than mere strength. and

<sup>&</sup>quot; Philestratus, Inc. ii. 82.

<sup>2</sup> Paus, L 39, 8; Schol. Pindar, Nem. v. 49.

<sup>&</sup>lt;sup>6</sup> Cp. Findus, Ol. viii. 10; ix. 91, 110; LtA. vi. 20, and possion; Anth. Plan. iii. 2, App. so. Acinm. Fur. Bist. ii. 4, tells us of a trainer who punished a pupil merely because the popular.

lnes applanded him: 'ākkā số ya saxār sai oóx ās dxpār ēselgam ūsra dxpār āmmus ya réadur sō yāp ha dzīprema obrot rexpende sa Baārasrā ri.' Eurymenes who won a victory at Olympia in 472 n.c. (c. Oz. Papers II, 222) was trained at Samos by Pythagoras, and

the wrestling matches of Theseus and Heracles with Cercyon and Antaeus are but one of the many forms in which the Greeks imaged forth the triumph of civilisation over barbarism.

### F.—Distinctive Features of Greek Wrestling. The Fall.

The two essential points which distinguish one style of wrestling from another are the definition of a fair throw and the nature of the holds allowed. In most modern styles, including the so-called Graeco-Roman, a man is considered thrown only when both shoulders, or a shoulder and a hip, are touching the ground at the same time, but in the Cumberland and Westmorland style he is thrown if he touches the ground with any part of the body. It has generally been asserted that in Greece the only throw recognised was a throw on the back.<sup>25</sup> But this idea seems to be due to the tendency to ascribe to the ancients the practices of modern athletics, a mistake facilitated in this case by the misleading use of the expression Graeco-Roman.

The principal evidence for the view that a clean throw on the back was required is a passage from the Suppliers of Aeschylus, I. 90, where the chorus dwelling on the inscrutability and infallibility of the ordinances of Zeus

exclaims

πίπτει δ' ἀσφαλές οὐδ' ἐπὶ νώτφ κορυφά Διὸς εἰ κρανθή πράγμα τέλειον.

The perfect deed ordained by the brow of Zeus falls'—to use a colloquial expression—'on its feet, not on its back.' This meaning of ἀσφαλές agrees perfectly with the common use of the verb σφάλλω as a wrestling term, and the whole expression is obviously intelligible to anyone who has seen a wrestler after being swung round and round by his opponent land safely on his feet. At the same time it is dangerous to draw definite conclusions as to the laws of Greek wrestling from such a passage; for the metaphor, applicable as it is to wrestling proper, is equally applicable to the rough and tumble of the pankration or of actual warfare, where the combatant who is thrown heavily on his back is completely at the mercy of his opponent. But even if we grant the connexion of the passage with wrestling proper, it certainly does not prove that the throw on the back was the only throw that counted; it proves at the most that such a throw was a fair throw, which no one has ever denied. By a curious oversight Paley, who in his note on the lines definitely lays down the law that victory consisted in three clean throws, i.e. in the

τοῖς Δοκεδαιμονίων παισί, βία κρατέω, Anth. Plan. I. 1. and Platarch, Apophthegm, Lac. Var. 27 (283 E), tells as that the Sportans allowed no trainers for wrestling, Iva μη τέχτης άλλ' άρετῆς ἡ φιλοτιμία γένηται.

though small of stature, thanks to the copies of Pythagorus, defeated many mighty opponents, Iriog. Laurt, viii. 1, 12. On the other hand Damagetas in an epigram puts into the month of a Spartan youth the typically Spartan boast that he ewed his victory to leuts force, not to shill

allou regyderres: êşá şe uko üs évémee

<sup>38</sup> Smith, Diet. Ant. s,v. 'Imsta."

miversary being had on his back three times, and Mr. Tucker who follows Paley, supply the evidence for their own relutation. "If a wrestler fell on the knee, they say, it was no defeat, and in support of this they quote the

Agamemnon 1. 63 sqq. and the Persae I. 914.

The passage from the Agamemnon, proves nothing. παλαίσματα is no doubt originally an athletic term, but its metaphorical use to denote any form of struggle is so obvious and so frequent that often it almost ceases to be a metaphor. In the present passage the metaphor of the palaestra is dropped immediately and passes into the language of actual warfare. The words γονατος κονίαιστο ἐρειδομένου—the words for which the commentators quote the passage—though singularly inappropriate to any form of wrestling but ground wrestling, exactly express the attitude of the warrior as we see him represented in the Aeginetan marbles and on many a vase, kneeling down to receive the charge of the enemy, or beaten on to his knees in the mèlée. The picture is completed by the words διακναισμένης κάμακος. 'The snapping asunder of the spear '20 is a detail which can have no possible connexion with wrestling.

The passage referred to from the Persas is far more to the point, but it absolutely contradicts the conclusion in proof of which it is quoted. The

chorus lamenting the downfall of Persia cry

'Ασία δε χθών, βασιλεῦ γαίας, αίνῶς, αίνῶς ἐπὶ γῦνυ κέκλιται.

Here there can be no doubt that the metaphor is taken from wrestling, nor can there be any doubt that the words express a decisive fall, the very opposite of that described by πίπτει ἀσφαλές. The whole context, and the twice repeated alνώς leave no doubt of the completeness of the defeat. The very same metaphor is used by Herodotus \*\* in describing the catastrophe which befel the Chians. The gods, he says, had already sent two disasters upon them by way of warning, μετὰ δὲ ταῦτα ἡ ναυμαχίη ὑπολαβοῦσα ἐς γόνυ τὴν πόλιν ἔβαλε. The only possible conclusion from these passages is that a wrestler who fell on his knee was thereby defeated.

Mr. Tucker goes further than Paley and asserts that even a throw on the shoulder did not count, quoting in support of this statement the passage from the Equites of Aristophanes where the chorus, describing the dogged tenacity of the men of the older generation who had made Athens great, say

> εί δέ που πέσσιεν ές τον διμον έν μάχη τινί τοῦτ' Απεψήσαντ' ἄν, εἶτ' ἢρνοῦντο μὴ πεπτωκέναι ἀλλὰ διεπάλαιον (Ι. 571).

> > # VL 27.

υ ούτω Ε 'Ατρέων παιδακ ό ερείσσων έπ' 'Αλεξάνδρο πέμπει Ξένων Ζεύς, πολυάνορου άμφι γοναϊκόν πολλά παλαίσμιτα και γνιαβαρή γώνατου κυνίαιστα έρειδομένου διακναισμένης π' έν προτελείως κάμακοι θήσων Δακασίσεν Τρασί θ' έμπέσι.

I have adopted the old interpretation of this expression, which seems to me so obviously appropriate to the context as to admit of no daubt. If, however, Dr. Verrall's suggestion is correct, that the snapping of the shaft is part of the marriage erremony, the passage has no nonnexion at all with wrestling.

Once more Mr. Tucker's illustration is fatal to his theory. If the throw on the shoulder was not a fair throw, the force of the passage is lost. The point is that these old Athenians, however clearly they were thrown, would never admit a defeat, but would wipe off the dust and go on wrestling, as though they had not been thrown at all. They wiped off the dust solely to hide the evidence of their defeat; if a fall on the shoulder did not count there was no defeat, and therefore no need for hiding the evidence.

The conclusions which we have drawn from Aeschylus and Aristophanes are confirmed by the epigrammatists who speak impartially of falls on the back, the shoulders, the hip, and the knee. And their evidence is especially valuable because the wrestling expressions are used by them literally, not

metaphorically.

For a fall on the back we have the epigram of Philippus on Damostratus, Anth. Plan. iii. 25

ού κατ' εύγυρου πάλην Φάμμος πεσόντος νώτον ούκ έσφραγισεν.

The epigram ascribed to Alcaeus on Cleitomachus who won a triple victory in the pankration, in boxing and in wrestling, tells us that he never fell on his shoulders, in language which recalls that of Aristophanes

> το τρίτου ούκ εκουισσευ έπωμίδας άλλα παλαίσας άπτως τους τρισσούς Ισθμόθευ είλε πόνους.

Anth. Pol. ix. 588.

Little weight can be attached to the epigram \*\* which relates how Milo advancing to receive the crown fell on his hip (ωλισθεν ἐπ' Ισχίαν), where upon the people cried out not to crown a man who had fallen without an adversary, but the epigram on the same athlete assigned to Simonides \*\* gives considerable support to our contention as to falling on the knee.

Μίλωνος τόδ' άγαλμα καλού καλόν, δε ποτε Πίση έπτάκι γικήσας ές γόνατ' οδκ έπεσεν.

The conclusion to which the literary evidence has led us is supported by the evidence of the monuments. If the only fair throw was the throw on the back, we should at least expect to find some representation of it. As it is, there is as far as I know not a single vase, bronze, gem, or coin on which such a throw is depicted. The only possible exceptions are a B.F. hydria in Munich is representing the struggle between Heracles and Antaeus, and a small bronze of rather doubtful antiquity figured by Montfaucon. But insumed as in both cases the struggle is still continuing, it is clear that the scene belongs to the pankration rather than to wrestling. On the other hand we have definite evidence as to the fall on the knee in a series of bronzes which appear to be imitations of some well-known Hellenistic

<sup>#</sup> dath Pal. 11. 316.

<sup>12</sup> Anth. Plan. iii. 24.

<sup>&</sup>quot; Arch. Zell. 1875. 2.

Montfamon, Ant. Ecpl. iii. 166, 2.
Remach, Repertoire de la Statumira, ii. p. 538.

group.<sup>26</sup> They represent a wrestler who has fallen on one knee, while his victorious opponent stands over him, with one hand pressing down his neck and with the other forcing back his arm. We shall have to deal more fully with these bronzes elsewhere: for the present it is enough to notice that the standing wrestler has completed his throw and that there is no suggestion of any further attack or action on his part. His opponent has fallen on his knee, and is defeated.

A possible objection to the view put forward is suggested by a throw commonly represented on red-figured vases and in Etruscan wall-paintings apparently imitated from them. It is possibly the throw described by Lucian as els byos dvasagragas and is known to modern wrestling as the flying mare.' The victor throws his opponent clean over his head, but, as he does this, he is sometimes represented as sinking on one knee or on both. If the rule of 'first down to lose' were strictly observed, the wrestler who sinks on his knee should lose the fall. Three explanations are possible. The artist may have taken a liberty with his subject for artistic reasons in order to shorten the group and so make it more suitable to the space at his disposal. Such a motive certainly suggests itself in the case of the B.M. kylix E 94 where the wrestler is sinking on both knees, and the same type is repeated with less reason in an Etruscan wall-painting. A more probable explanation to my mind is that the laws of wrestling, which were evidently very elaborate, allowed such a movement in this particular throw, possibly from motives of humanity in order to lessen the severity of the fall. This idea receives some support from the attitude of the trainer, who when present appears anxious to check any unnecessary violence. A third explanation is suggested by the Baltimore kylix published by Hartwig, Meisterschal, Pl. LXIV., which shows on one side two wrestlers obtaining a grip, and on the other the completion of the fall in question. The fallen wrestler is on his back with his legs still in the air, while his opponent kneels over him with his right hand on his mouth and his left raised to strike. This detail proves the scene to belong to the pankration and suggests that this fact may also account for the kneeling position. All the throws of ορθή πάλη were allowed in the pankration, and this particular throw, involving as it does a heavy fall on the back, may well have been a favourite with the pankratiast as it is to-day with the Japanese wrestler.

## G.—Wredling in Homer.

It is unfortunate that we have only one description of a genuine wrestling match of any value, the description in the Iliad. Quintus Smyrmaens and Nonnus merely imitate and enlarge upon Homer, introducing modifications

N. M. Bronzes S53; Stephani, C.R. 1867, PI. I.; Jahrb, 1898, p. 178; Reinach, ice. etc. Janeharres 24. For reso-paintings repre-

<sup>#</sup> danchurans 24. For rano-paintings representing this throw s. Hartwig, Meisterschales, xv. b, and Fig. 20 a, b (= B.M. = 94); for

Etrinoan wall-paintings, Dennis, Ciries and Counteries of Etruria, ii. p. 323 (= Krauss, op. etc. xii. b. 39 e); 327, 7 (Gori, Mus. Etr. iii. 84-87); 338 (= Dat.-Sagl. 4624); 343 (= Krause, xii. b. 39 b. Mus. Chius. exxvi.),

mostly borrowed from the pankration, while the late date of these writers makes their evidence less valuable even than that of the Roman poets. But the descriptions of the latter, and with these we may class that in the Aethiopica of Heliodorus, belong without exception to the pankration type where ground wrestling plays an important part and the fight is always to a finish.

The match between Odyssens and Ajax, as described in the Iliad, is a genuine example of δρθή πάλη. No time was wasted in the preliminaries. Girding themselves they advanced 'into the midst of the ring and clasped each the other in his arms with stalwart hands like gable rafters of a lofty house.' The attitude familiar to us from the monuments is identical with that adopted by Westmorland and Cumberland wrestlers in the present day. Then came a struggle for a closer grip. 'And their backs creaked gripped firmly (ἐλκόμενα στερεῶς) under the vigorous hands, and sweat ran down in streams, and frequent weaks along their ribs and shoulders sprang up, red with blood, while ever they strove amain for victory.' But when after much striving neither could gain an advantage, and the spectators grew impatient, Ajax suggested an expedient

### η μ' ἀνάειρ' ή έγω σέ.

There is here no suggestion of any trick on the part of Ajax, he merely proposes that each should in turn allow the other to obtain a fair grip and try to throw him by lifting him off the ground.\* There is no suggestion of unfairness, but such a contest does give an advantage to the heavier man. Odysseus, however, was equal to the occasion and as Ajax lifted him, not forgetful of his art, he struck him behind the knee with his foot and so brought him to the ground, falling heavily upon him. \* Clearly, if any one won the fall, it was Odysseus. The chip used by Odysseus is that known to modern wrestlers as 'the outside click,' a variety of the backheel invaluable as a defensive move to the light-weight wrestler. 'The most expert light-weight,' says Mr. Armstrong,' would have no earthly chance with a moderate heavy-weight were it not for the outside click, which should be plied directly he feels himself leaving his mother soil.'\* The particular form of this chip where the stroke is made as high up as the knee is known as 'hamming.'

Ovid, Met. ix. 82 sq.; Lucun, Phara. iv. 612 sq.; Statins, Theo, vi. 881 sq.

<sup>20</sup> P. 433 ay.

<sup>\*\*</sup> xxiii. 707-739. The quotatima are from the translation of the *Hind* by Messra Lang. Leaf, and Myers.

A fragment of a red-figured kyliz in Berlin, No. 2276, reproduced by Hartwig, Melsternhal.

<sup>12,</sup> though representing the pankration, gives a realistic illustration of these words.

figure to the right is not only bleeding copiously at the nose, but also bears on his back the marks of his opponent's fingers.

<sup>&</sup>lt;sup>40</sup> Passaums viil. 40 describes a similar arrangement in boxing. Crouges and Damoxenus agreeing to strike one another in turn without guarding themselves. This was called a value.

el "Da kirke brásije bákou & ob khôst" 'Obnaavis:

κόφ' δυίθεν κώλησα τυχών, δυέλοσα δέ γεία

nis & ibah' ifoniam ini th oribersus Obvosein

manner, 725-728.

<sup>\*</sup> Wreelling (All England Series), p. 8.

Next came Odyssens' turn: he tried to lift Ajax and moved 'him a little from the ground, but lifted him not, so he crooked his knee within the other's (ἐν δὲ γάνν γνάμψεν) and both fell to the ground nigh to each other and were soiled with dust.' Eustathius in his note on the passage says that they fell sideways, πίπτουσιν πλάγιοι, and he describes the chip as μεταπλασμόν οτ παρακαταγωγήν, technicalities which appear to correspond to the 'hank' or 'inside click' of to-day. The fall must certainly have been inconclusive, it was what is known in Cumberland as a 'dog fall,' and no

amount of ingenuity can assign the victory to Ajax.

At this point Achilles put an end to the contest and awarded to each wrestler an equal prize. Futile efforts have been made to justify this verdict by affirming that Odysseus won the first, and Ajax the second round. As we have seen, in the latter neither could claim the advantage, while in the former whatever advantage was gained belonged to Odysseus, who fell on the top of his opponent. But if Odysseus had won one fall, and Ajax had won neither, it is difficult to understand the justice of dividing the honours, and Odysseus surely was the last man to yield such a point. The explanation is simple : neither bout was conclusive, for neither wrestler kept his feet in either, and the inference is that when both wrestlers fell, no fall could be scored. Whether this principle held good in historical times there is no evidence to determine.45 The principle is not unknown to modern wrestling, and the Homeric account establishes some slight presumption in its favour. Possibly it may be implied by Pindar's use of the adjective antwo describing the 'swift and sudden shock' by which Epharmostus threw his opponents. 16

### H.—Quintus Smyrnaeus and Nonnus.

The wrestling matches described by Quintus Smyrnaeus and Nounus need not detain us long. In the former, if the opponents are Ajax and Tydides. In the first bout Ajax obtains a firm grip on Tydides and tries to crush him or bend him backwards ( $\tilde{a}\xi ai$ ) but the latter by a combination of strength and skill slips the grip, and obtaining the lower hold lifts Ajax off the ground, getting his shoulder underneath, and at the same time twisting his foot round his opponent's leg 'on the other side,' he brings him to the ground and sits upon him. Tydides is clearly the winner.

In the second round there is a long and tedious struggle for a grip, Tydides trying to obtain a hold round Ajax' thighs. Ajax after vainly endeavouring to force him to the ground obtains a grip round his waist and turns him over heavily in a style which is associated in art especially with

<sup>6</sup> Nothing can be inferred from Pindar, Pyth. viii. 31, respect 5 fareres by 60 se supdresses. There is no authority for translating fareres fell appearant upon. Here and in Asschylas, Agamesanus 1174, which Dr. Fennell in his

edition of the Pythian Odes quotes in support of his translation, dustween has its usual meaning by attack.

of Ol. ix. 01.

<sup>4</sup>º iv. 215 sq.

Theseus. At this point as in the Iliad, Achilles declares the match a draw and divides the prizes.

In Nonnus, Aristaeus is opposed to Aeacus. The first round follows closely the Homeric model. Aristaeus tries to lift and swing Aeacus, who clicks his left knee with his heel and so throws him backwards. But the second bout diverges widely from Homer. Aeacus tries to lift Aristaeus, but tailing to do so he springs suddenly round him and jumps upon his back, twisting his legs round his stomach and knotting his hand round his neck so that he cannot speak. The officials interfere to save him from death: 'for,' says Nonnus,' there was no law such as later generations long ago devised by which the vanquished could give a sign of his defeat by turning down his thumb.' Here we have passed away from wrestling into the region of the pankration and the gladiatorial shows, and the particular trick described is, as I hope to show when dealing with the pankration, that known as κλιμακισμός.

These descriptions, though affording interesting illustrations of various grips, throw little light on the principles of δρθή πάλη. The only point on which they have any bearing is whether the τρία παλαίσματα were three falls or three bouts, whether the wrestler had to win the best of five bouts or of three. Homer's description is in favour of three bouts; Quintus and Nonnus corroborate Homer, but, as they are obviously imitating Homer, their testimony has no independent value. Mest of the passages referring to the τριαγμός <sup>10</sup> admit of either interpretation. But the following line from a fragment of Sophocles 678 clearly implies three falls

# τίν' οὐ παλαίουσ' ές τρὶς ἐκβάλλει θεών;

So too Apollodorus α describing the fight between Heracles and Eryx says that the former τρὶς περιγενόμενος κατὰ τὴν πάλην ἀπέκτεινε. With this agree the words of Seneca—luctator ter abjectus perdidit palmam—the definition of τριαχθῆναι by Suidas as τρὶς πεσεῖν, the metaphorical use of τριάζειν and its cognates and especially their application to the pentathlon. So, though it is unwise to dogmatise upon a detail so liable to vary with time and place, I believe that three falls were necessary to secure victory, or the best of five bouts.

# I.—Legholds not allowed.

We come now to the much more difficult question of what grips were allowed. In particular were legholds allowed, and was tripping allowed? The conclusions to which I have come are that in true wrestling no holds

<sup>&</sup>quot; E.g. the Metope from the Theseum.

in Diongs. xxxvii, 553-601.

<sup>\*\*</sup> The exidence on this point is collected in my article on the Pentathion, vol. xxiii. p. 63 of this Journal. The quotation from Plate, Esthudences 277 c, is inaccurate. It should be

<sup>&#</sup>x27;fre de dut ro roirou caraßakau acres edamena Sona ros seaviosos,' The insucuracy does not affect the argument as the passage still implies three falls, Clemine having been already twice thrown in the argument.

H H 5, 10, 10

were allowed below the waist and that various forms of tripping were allowed, though I doubt whether it was employed so freely as in some modern schools.

By far the most important passage dealing with the first question occurs in Plato Leg, vii 796A, B. Speaking of the style of wrestling which he would encourage in his ideal state he says: καὶ δὴ τὰ γε κατὰ πάλην à μὲν Αυταίος ή Κερκυών εν τέγναις ξαυτών συνεστήσαντο φιλονεικίας άχρήστου χάρεν ή πυγμήν Επειος ή Αμυκος, οὐδεν χρήσεμα έπε πολέμου κοινωνίαν όντα, ούκ άξια λόγω κοσμείν τα δε ώπ' όρθης πάλης, άπ' αύχένων καί γειρών και πλευρών εξειλήσεως μετά φιλονεικίας τε και καταστάσεως διαπονούμενα εὐσχήμονος ρώμης τε καὶ ὑγιείας ἔνεκα, ταῦτ' εἰς πάντα ὅντα χρήσιμα οὐ παρετέου. Plato, who was himself an athlete, is here contrasting the methods of aρθη waλη, which was an exercise of skill practised in a spirit of honourable rivalry and promoting the healthy and harmonious development of the body, with the more brutal methods elaborated by bullies such as Cercyon and Antaeus for mere personal vainglory and love of strife. His language leaves no doubt that he is really thinking of the pankration which he elsewhere expressly excludes from his state.34 The pankratiast, like the bully, sought by all means in his power to reduce his opponent to helplessness and to force him to acknowledge defeat, and the result in both cases was not infrequently fatal. Plate then contrasting wrestling with the pankration defines the former as consisting in the disentangling of neck and hands and sides. These are precisely the holds which we see constantly represented in art, and we may note in passing the accuracy of the description; for the wrestler's art is shown even more in his ability to escape from a grip than in his skill in fixing one.

Plate in this passage makes no mention of legholds, but the scholiast commenting on it tells us that Theseus invented τἡν ἀπὸ χειρῶν πάλην, and Cercyon τἡν ἀπὸ σκελῶν. Now inasmuch as the wrestling of Cercyon and Antaeus is contrasted with ὀρθἡ πάλη and is therefore connected with the ground wrestling of the pankration, we are justified in also connecting with

the latter the phrase την από σκελών.

The meaning of this phrase is however, ambiguous; it may denote either legholds, or the use of the legs in tripping. Eastathius clearly understood it in the latter sense, for in his note on the Iliad already referred to <sup>12</sup> he says of the first bout in which Odysseus struck with his foot the back of Ajax knee πρῶτος δέ, φασίν, Κερκυῶν εὖρε τὴν τοιαύτην παλαιστικήν μηχανήν και καλεῖται ἐγνύῶν ὑφαίρεσις. Evidently the scholiast to Piato and Eustathius drew their information from a common source, or one of them took it from the other. But there seems some reason for supposing that Eustathius has mistaken the meaning of τὴν ἀπὸ σκελῶν πάλην and ἐγνύῶν.

33 1827, Bal.

Log. 884 a. The vertices of the fourth contury should not unduly prejudice as against the punkention. Originally an exercise of skill like beging and conducted in the true spirit of

sport, like boxing also it degenerated into brutality under the influence of specialisation and professionalism.

bealpears. A writer describing the methods of Antaens and Cercyon would naturally have in his mind the conventional representations of these giants in art. The discussion of these mythological types must be postponed for the present; it is sufficient here to note that Antaeus is commonly represented either actually seizing or trying to seize Heracles by the ankle, and Cercyon when lifted off his feet by Theseus frequently appears to be catching at the hero's legs.44 This trick is generally described as To FAXEIV, though there is as far as I know no authority for thus narrowing down the meaning of Excer except a wrong reading in a passage of Lucian's Dialog Decrum vii. 3, where we read χθές δὲ προκαλεσαμένος του Ερωτα κατεπάλαισεν εὐθὺς οὐκ οἶδ ὅπως ὑφελών τὸ πόδε. The old reading for which there seems to be no authority was ὑφέλεων τω πάδε, the new and correct reading υφελών brings us back to υφαίρεσις. Even so the passage is ambignous and might denote equally well a leghold or tripping but the evidence of the vases seems to me to prove conclusively that 'leg wrestling' traditionally associated with Cercyon was not tripping but seizing the opponent by the leg.

With the mythological scenes we may compare certain Panathenaic vases where one of the opponents is represented as having caught the other by the leg and lifting him up seems on the point of overthrowing him. His opponent has his arm mised as if about to strike him with his fist, a fact which proves that the scene represents, not as is commonly stated wrestling, but the pankration. The same motive occurs in a long series of the Pamphylian coins of Aspendus, and occasionally upon gems, and the trick might be described as 'cprion' ipalpears with quite as much propriety as that employed by Odysseus. In some of these scenes it seems as if one of the pair was endeavouring to kick the other in the stomach, and that the latter has seized his foot in the nir. Kicking was certainly allowed in the pankration, and is alluded to by Theocritus xxii. 66 as one of the distinctions between the pankration and boxing: Amycus, who is put by Plato in the same class as Antaeus and Cercyon, challenges Polydeuces, who asks

# πυγμάχος ή και ποσσί θενών σκέλος, δμματα δ' όρθά;

Galen, too, in his amusing vision of an Olympic festival in which the animals wrest all the crowns from man, assigns the prize for boxing to the bull, that for the pankration to the donkey who λάξ ποδί εί βούλεται έρίσας αὐτὸν τὸν στέφανον οἴσεται. (Προτρεπτ. ἐπὶ τέχνας, 36.)

Here then we have two practices—catching an opponent's leg and kicking—which certainly belong to the pankration and are far more suitable to the character of Cercyon than the trick employed by Odysseus. Kicking

" Laulan, Ameliarate 9, refers to kinking in

the atomach, Askriftherer is the yearing; cp. Aristoph. Ep. 273, 454, yearnifeer. Pollux, iii. 150, includes in his list of terms connected with the pankration, Add & dAAcedas, an expression very descriptive of the left hand pankratiast in the Lamberg amphora.

The vase-paintings refresenting these two subjects are collected by Klein, Emphronics, pp. 122 and 193.

M. d. I. i. 22, 85 and 106 [1 bays failed in discover where these vaces are ince); amphora in Lamberg collection, J.H.S. i. Pl. VI.

we know was not allowed in wrestling; legholds are only represented or described  $^{\rm st}$  in connexion with the pankration, and from the omission of any mention of them by Plato we may infer that they were not allowed in  $\delta\rho\theta\eta$   $\pi d\lambda\eta$ . This view is confirmed by the practical consideration of the riskiness of such a trick in a style of wrestling in which it was essential to keep on the feet  $\delta\rho\theta a\sigma\tau d\delta\eta\nu$ , and in which the man who touched the ground even with his knee lost. The wrestler who stoops low enough to seize his opponent's foot is certain to be forced on to his knees if he misses his grip, and according to Statius such a fate actually befel Tydeus in his match with Agylleus

fictumque in colla minatus crura subit: coeptis non evaluere potiri frustratae brevitate manus: venit ardius ille desuper, oppressumque ingentis mole ruinae condidit.—Theb. vi. 876.

Fortunately for Tydeus the match was fought under the rules of the pankration.

#### L. Tripping.

We have seen how important a part tripping played in the Homeric wrestling match. After Homer we have little evidence beyond the frequent metaphorical use of ὑποσκελίζειν 36 until we come to Lucian. In the first chapter of the Anacharsis describing the athletes in the palaestra he says οί μεν περιπλεκόμενοι υποσκελίζουσιν, and again in chapter 24 πολεμίω άπδρι ο τοιούτος συμπλακείς καταρρίψει τε βάσσου υποσκελίσας και καταπεσών είσεται ώς βάστα έξανίστασθαι. In the Oxyrhynchus wrestling papyrus one of the instructions is σὐ βάλε πόδα, words which seem to denote some movement of the foot for the purpose of tripping Lastly, Philostratus, Gym. 35, describing the physical an adversary. qualities of the wrestler, asserts that the βουβώνες must be εὐστραφείς, for so they are συνδήσαι ίκανοι πάν όπερ άν ή πάλη παραδιδώ και συνδεθέντες άνιάσουσε μάλλου ή άνιάσουται. The words 'όπερ αν ή πάλη παραδιδώ' confine the expression to such clicks as are allowed in true wrestling, excluding the more complicated grips with the legs possible in ground wrestling.

This evidence though somewhat scanty is sufficient to prove that tripping was practised by the Greeks, though probably not to the same extent as in some modern styles. This conclusion is supported by the monuments; for though tripping is as far as I know never represented by the vase painter, it

kration.

<sup>&</sup>quot;Thus in Orid, Mct. ix. 37; Lucan, Phars.
iv. 612; Statins, los off. Lucian, Anacharsis 1,
describes how one youth apparers rbs freque de
rols aschols apparer els rb foupes, but the context proves that he is speaking of the pan-

Flato, Enthydem, 278 π; Demontheres 273. Δγακρίσει is used by the comic posts in the same way, Aristoph. Eq. 262; Eupolis, T4ξ. 6.

is clearly implied in the group of bronzes mentioned above. In these bronzes the way in which the victor's left foot is twisted round his opponent's clearly shows that he must have employed this foot in twisting him off his balance.

The moment shown in these bronzes, as has been already stated, is one of rest; the standing wrestler has thrown his opponent, and the victory is won. If, however, he were to continue the attack he would fall on his opponent in precisely the attitude represented in the famous Uffizi group of wrestlers. This group belongs to the pankration and not to true wrestling, and I should not have mentioned it here, were it not that the contrary is stated in a most interesting article by Hans Lucas which appeared in last year's Jahrbuch,60 with much of which I fully agree. Comparing the marble with the wrestling groups in a Roman mosaic from Tusculum, a he concludes that the artist of the mosaic had in his mind the marble group, and that the right arm of the victor, which in the restoration is raised with clenched fist as if for striking, is wrongly restored 'because the scene belongs manifestly not to the pankration but to wrestling, where striking was not allowed, and he therefore suggests that he is rather preparing to seize his fallen opponent by the neck in order to strangle him in the manner represented in the mosaic. With the correctness of the restoration I am not concerned here. I will confine myself to two remarks. In the first place the scene does not munifestly belong to true wrestling. It has been shown that the wrestler's object was to throw his opponent, and that there is no proof that he had to throw him on his back or force him to acknowledge defeat. In the Uffizi group the undermost wrestler is manifestly down and yet the struggle still continues. Hence it belongs to the pankration. equally unfounded statement sometimes urged against the actual restoration of the group is that in the pankration hitting was not allowed when the opponents were on the ground. This is a gratuitous assumption, and is quite contrary to the evidence of the vases. Secondly, supposing that the restoration is wrong and that the motive of the group is To ayxer, I submit that this form of strangling is utterly incompatible with true wrestling inasmuch as its object is not to throw the opponent, but to incapacitate him. Therefore the Uffizi group still belongs to the pankration, as does the corresponding group in the mosaic.

#### M .- Conclusion.

It may be convenient to sum up the conclusions at which we have arrived:-

I. If a wrestler was thrown on his knee, hip, back, or shoulder, it was a fair fall.

<sup>25</sup> P. 23 n. 36.

ee P, 127 spy.

S M. st. I. vi. vil. 82, Schreiber, Atlas xxiii.

- 2. If both wrestlers fell together, nothing was counted.
- 3. Three falls or the best of five bouts were necessary to secure victory.
- 4. No holds were allowed below the waist.
- 5. Tripping with the feet was allowed.

These general laws may have been, and indeed were probably modified at different times and different places. We know for example that the Sicilians had rules of their own.\*\* But the general agreement of the evidence seems to show that at all events in the great athletic festivals wrestling was conducted on the above principles.

E. NORMAN GARDINER.

(To be continued.)

<sup>\*</sup> Λοίται, Γαν. Ηλεί. τί. 1 , 'Ορίκαδμος πάλης δγένετο συμοθέτας, απθ' έπετλο έπισσέστε τὸν-Σικλλία τρόσου επλούμετας.

# NOTES AND INSCRIPTIONS FROM SOUTH-WESTERN MESSENIA.

#### 1.—Introduction.

The following notes and inscriptions represent part of the results of a journey made in the spring of 1904, supplemented and revised on a second visit paid to the same district in the following November. One inscription from Korone, a fragment of the 'Edictum Diocletiani,' I have already published (J.H.S. 1904, p. 195 foll.). I have attempted to state as briefly as possible the fresh topographical evidence collected on my tour, avoiding as far as possible any mere repetition of the descriptions and discussions of previous writers.

The literature dealing with this part of Greece is not extensive. I give here a list in chronological order of the more important works in which its geography and antiquities are discussed, and append to each the abbreviated

title which I shall use for purposes of reference.

1. Pausanias iv. 34, 35.

W. M. Leake, Travels in the Morea, i. 428-448; London, 1830.
 [Leake.]

 A. Blouet, Expédition Scientifique de Morée, i. 9-18 and Plates 8-17: Paris, 1831. [Blouet.]

 E. P. Boblaye, Recherches Géographiques sur les Rumes de la Morév, 111-113; Paris, 1835. [Boblaye.]

 Bory de St. Vincent, Expédition Scientifique de Morée. Section des Sciences Physiques. Relation. Paris, 1836. [Bory.]

 W. M. Leake, Peloponnesiaca, 195–197: London, 1846. [Leake, Peloponnesiaca.]

E. Curtius, Peloponnesos, ii. 165-172, 195-196; Gotha, 1852.
 [Curtius.]

C. Bursian, Geographie von Griechenland, ii. 172-175; Leipzig, 1868.
 [Bursian.]

 J. G. Frazer, Pausanias's Description of Greece, iii. 445–456; London, 1898. [Frazer.]

<sup>\*</sup> Leake's Mores was not published until 1830, taken twenty-five years previously, in 1895 and though the journeys to which it relates were 1806.

For the geology of the district, Philippson, Der Peloponnes, p. 355-377, should be consulted. A full bibliography is given at the end of this work (p. 611-616).

It is a pleasant duty to take this opportunity of expressing my warm thanks to those who, either by their generous hospitality or by the ungrudging way in which they placed at my disposal their knowledge of local antiquities, contributed largely to the pleasure and success of my tour; especial mention is due to Mr. P. Torolopoulos, demarch of Methone, Mr. C. Bebonis of Korone, Messrs, P. and N. Klappas of Kandianika, and Dr. D. Marcopoulos of Petalidhi.

#### II - Methone,

Pausanias (iv. 35) tells us that Methone lay on the site of the Homeric Πήδασος, and that it derived its name either from Methone, a daughter of Oeneus, or from the Μόθων λίθος which protected its harbour. It was given by the Spartans to the Nauplians who had been driven from their home for their philo-Laconian sympathies by Damocratidas of Argos, and remained undisturbed even on the restoration of the Messenians by Epaminondas. Subsequently it was desolated by a band of Hlyrian corsairs, who, under pretence of trade, enticed to their slips and kidnapped a large number of its inhabitants. It was made a free city by Trajan. To these facts we may add the abortive attempt of the Athenians to gain possession of Methone at the outset of the Peloponnesian War-an attempt in the frustration of which Brasidas won his first laurels (Thuc. ii. 25)—and its siege and capture by Agrippa shortly before the battle of Actium (Dio Cass. L. 11, 3; Strabo viii. 4. 3). The only temples mentioned by Pausanias are those of Athem Anemotis, 'the wind-stiller,' founded by Diomedes, and of Artemis: that which most attracted the traveller's notice was a well of bituminous water, which leads him into a long excursus on remarkable wells and springs,

The modern town lies wholly outside and to the N of the Venetian fortress, which is now uninhabited and is rapidly falling into ruin; it is situated on the southernmost spur of the long ridge of "Aylos Nikôlaos" which runs due N, from here and terminates above Pylos. The castern wall of the fortress is built in part on ancient foundations, and considerable remains are left of the ancient mole running parallel to this wall from the rock which may be identified as the  $Mo\theta\omega r \lambda i\theta os$  of Pausanias; this is joined to the mainland by a ruined bridge, and on it rises an octagonal tower, originally built to protect the harbour but subsequently used as a lantern and a prison. A mole built in 1895-6 runs eastward from the landing-place (Blouet, Pl. 15, fig. II. E) through the extremity of the ancient jetty, thus completely cutting off the old harbour, which is too shallow to be of any use; to the N, of this mole sailing boats can approach close to the fortress, but the

<sup>\*</sup> Perhaps the ancient Toasés (Thue, iv. | Blonsé, p. 12; Leake, p. 480, 118, 4; Steph. Byz. s.e.).

coasting steamers which call at Methone in the summer season have to anchor out in the bay. In the ruined chapel of 'Aγία Σοφία ' within the fortress are eight small columns of white marble, one of shell conglomorate, a fluted Ionic column of black limestone, and a much damaged Ionic capital of white marble. On the top of a Byzantine capital with an ornament in relief on the two short sides is a late inscription (No. 1, below), the first which has been found at Methone. From the E. the fortress and town are approached by a bridge which rests on ancient foundations (Curtius, p. 170).

Though scanty, this evidence seems to warrant our placing the ancient Methone on the site of the medieval fortress, and also, perhaps, of the

modern town (see esp. Blouet, p. 12).

Three other sites in the neighbourhood call for a few words of comment:

(1) Gell (Hinerary of the Morea, p. 54) says: 'E, of Modon, about 2,700 paces from the city, is a place called Palain Mothone, where are the vestiges of a city, with a citadel, and a few marbles. It is difficult to determine the date of the ruins.' The spot in question is about 17 miles N.E.6 of the modern town and lies in the valley of the upper Methone River and on the northern slope of the low ridge which forms the left bank of the river valley. The site still bears the name Παλαιά Μεθώνη, and a large ruined church near by as well as the quantity of stones everywhere in evidence seems to indicate that there was once a village here. But there are now no vestiges of antiquity to be seen, the walls which were pointed out to me as such being medieval. I was shown Pausanias' bituminous well, but my informants admitted that the water is perfectly sweet and clear! I think it is not impossible that at some time previous to the building of the fortress at Modon, the inhabitants, finding themselves too easy and accessible a prey to corsairs, may have migrated inland to this less exposed and better watered site, carrying with them the name of their town: in this case 'Old Methone' would be opposed to the new town of Modon.

(2) The members of the 'Expédition de Morée' found on the shore and neighbouring hills, 2 kms. E.\* of Modon, many Roman ruins, proving the existence there of baths and factories of coarse pottery, as well as a small temple situated on an eminence above the sea (Boblaye, p. 113). Here also I failed to discover traces of antiquity. In about the position indicated, where the hills rise to the E. of the plain of Methone, stood the old chapel of "Aytos 'Hλίας on a low cliff above the shore. But about lifteen years ago the encroachment of the sea caused a landslip which carried away half of the chapel, the remainder of which lies wholly in ruins: it has been replaced by a new church on the eminence to the N., about a hundred yards from

the sea

\* Blouet, Pl. 14, Figs. I, H.

<sup>\*</sup> The two capitals from Coron figured by Blenct (Pt. 17, Figs. II, III) now his beside the N. door of the church of Merapoppacir in the fortress at Modon.

<sup>\*</sup> Gell's loose use of the term flast has led. France to confuse this site with that referred to by Boblaye (see below).

Boblave's '2 kilometres à l'oussi de la ville is obviously un error.

(3) Leake (p. 429) refers to the place called "Αγιος 'Ονούφριος, 1½ miles Not the town," an excavation in the rock, which, since it ceased to be a Hellenic sepulchre, has been a chapel or hermitage, as appears by the remains of some Greek paintings." In fact there is here a series of caverns or grottes, partly natural and partly artificial; the roof of the largest of these is supported by pillars of the living rock, and in front of it are a number of graves cut out of the rock. In the principal grotto the frescoes are still discernible, though almost obliterated by the snoke of shepherds' fires. Around the western and northern walls are niches with rock-cut tombs, and similar graves have been hollowed out in the floor. Above these caverns, and also further S. on the slope of the hill towards Methone, are very extensive rock-cuttings, perhaps the quarries of the ancient city.

Into the vicissitudes of Modon's eventful history in medieval and modern times I cannot here enter; but one important correction must be made. Blouet (p. 11) says that 'les remparts de Modon avaient été élevés, en 1514, par ordre du senat venitien, and publishes the following inscription: D.O.M. Methonem communiri vallis moenus" et propugna cu lis terra marique mandavit Senatus Antonio Lauretano Pro(viso)ri O(e)n(er)nti Armo(ru)m in Peloponneso, qui tanti operis curam sustinens ad urbis et regni Intamen fortiora munimenta errait et clausit anno Salutis MDXIV. This inscription, engraved on a block of dark grey marble, is now lying partly buried among the ruins of the church of 'Ayia Yodia (see above); the portion of it which I read is printed in italics. The date however, on the stone is MDCCXIV, not MDXIV. In 1498 Modon was captured from the Venetians by Bajazet II and remained in Turkish hands until 1685, when it was recovered for the Republic by Morosini.9 In 1714 the Venetians strengthened the defences of the fortress, as is witnessed by the above-quoted inscription and by a second one on a white marble tablet let into the northern wall above the moat,10

# ANTONII LAVRETANI EQV : GNLIS : ARM : IN PELOPONE REGIMINE ET CVRA ANNO MDCCXIV

"Antonii Lauretani Equ(itis) G(e)n(em)lis Arm(orum) in Pelopone(so) regimine et cura anno MDCCXIV."

<sup>&</sup>quot; Probably MGEN", S.c. moun(10)us,

<sup>&</sup>quot;The following inscription belongs to this period: the state on which it is cut, broken in two and defaced with [dester, is now immuned above a house stoor in Methode: "A.B. amerixxxviii die xv | Augusti [M] V | Roe sacellum, dient[um II](eather Virgini Marine de | Sainte Prot(ebc(tiri))) bo(strae, const]methon but I ad a(ug)endam milita(rijum devoctionets)

ex | jussu (lliustriss)mi et exc(ellentiss)mi P[aul](? Densti Previsor(is | Extr(sordinar))) huim civ[itatis,] ho(minis )) preestantis(s)ml | at vigilanti()s(s)mi, et od [p]ostor(itatis) memotism.

<sup>&</sup>lt;sup>10</sup> Just below the relief of a sringed lime shown at the extreme left of Blouat's engraving (Pl. 12, Fig. 1).

But these efforts were in vain, for in 1715 the Turks once more seized Modon, which they held down to the time of the Greek Revolution, when it was captured by the French under General Maison in 1828.

### III.-Korone (Coron).11

The town of Korone lies on the northern slope of the spur on which rises the famous medieval fortress of Coron  $^{12}$ : to the E there runs out into the Gulf a small headland, called  $\Delta\iota\beta a\delta\iota a$ , the flat top of which is under cultivation but uninhabited. Within the fortress walls are still a number of inhabited houses, though the greater part of the area is occapied by gardens and small fields. The walls and towers were built more solidly than those of Modon, but the depredations made in the search for building stones have been severe.

Boblaye (p. 112) speaks of a Roman tower and ruins inside the city, while the headhard already referred to has a number of cisterns and the remains of walls and a staircase of Roman date, along with an immense accumulation of sherds. Marble fragments are very frequent in the fortress walls, and I was able to copy several inscriptions hitherto unpublished. One of these seems to point to a cult of Asclepius (No. 2), and in connexion with this may be mentioned a small bearded head (ht. 115 m.) of white marble, found on the sea shore immediately S.E. of the fortress, which seems to represent either Zeus or Asclepius. The workmanship is rough, but not bad: heavy locks of hair fall over the forehead and down the sides of the head; the lips are slightly parted so as just to show the teeth between them. A large base within the citadel once bore a statue of Septimius Severus erected in 194 or 195 A.D. (No. 3), while a fragment of white marble contains a few items of the Edict of Diocletian in a Greek version (J.H.S. xxiv. p. 195 foll.). There are reports of inscriptions and marbles found at a spot (θέσις Ζάγκα) to the S. of the fortress, showing that the shores of the Bay of Memi were inhabited in antiquity : unfortunately only two of these were forthcoming on my visit, both very late and fragmentary (Nos. 4, 5). Immediately beyond the fortress on the W. lies the eminence called Tabouri or Bourgos, 13 in which are many tombs cut in the rock, a rock-cut cistern and traces of an ancient or medieval road. To the N.W., about three-quarters of a mile from the town, many tombs have been found; one of these,14 opened about thirty years ago, contained 'a skeleton with the hands folded on the breast, on which lay a lump of unworked bronze'; on one wrist was a gold bracelet,

1685 see Coronelii, Description de la Marse, p. 30 foll.

14 At the θέσες Παναγίτσα, περιφέρεια Αγίου Δηματρίου.

<sup>&</sup>quot;To avoid confusion as far as possible, I write the ancient Kepsen (mod. Petulidhi) Corone, the modern Kepsen (Coron) Korone. Matters are still further complicated by the fact that the modern dense, which has Petalidhi as its capital, is also called Kepsen.

<sup>12</sup> For plans of the fortress and an account of its history down to the capture by Morosini in

This name seems to be a survival of the Italian Borge (see Commelli's plans): the term Purga given to this hill-top by Leake (p. 436) and Frazet (p. 449) is unknown.

afterwards melted down into a ring still worn by the finder, while above the head was the epitaph (No. 6), proving the interment to belong to the second or third century Δ.D. and to be that of a priestess. A little way to the north of this spot is a chapel of "Αγιος Δημήτριος, presumably the same where Pouqueville (Voyage de la Grèce, vi. p. 60) found a fragmentary Greek inscription and two Venetian epitaphs: the chapel is now plastered and whitewashed, and no trace of inscriptions remains. A large fragment of a white marble statue and a torso (ht. 36) now preserved in the δημαρχείου were found on the beach below the N. wall of the fortress, and have almost certainly fallen down from the height above, which in antiquity was doubtless the acropolis.

All these indications point to a city of considerable size and importance as having occupied this site in antiquity, and we may safely follow Boblaye (p. 112), Leake (Peloponnesiaca, p. 195), Curtius (p. 167), Bursian (p. 174), and Frazer (p. 449) in identifying it with Asine, a town which in ancient times gave its name to the Gulf as Coron has done during and since the Middle Ages. This agrees with the data given by the Tabula Peutingeriano (15 miles from Modon, 30 from Messene), and with Pausanias' statement of its distance (40 stades) from Colonides, which we shall see reason to place at Kastelia-Vounaria. The only difficulty is that caused by Pausanias' remark that it is 40 stades distant from Acritas; this led Leake (p. 4+3). to place Asine about halfway between Coron and Cape Gallo, which lie about 80 stades apart: later, however, as we have seen, he discarded this view, and all who have traversed the coast south of Coron are unanimous that no traces of a Hellenic settlement are to be found on it. It seems probable that by Acritas Pausanias means "Λγιος Δημήτριος, the highest point of the mountain (1667 feet) of which Cape Gallo is the southernmost spur. Bory's identification of Asine with the site on the W. coast of the peninsula where the French expedition discovered considerable Roman remains (Bory, p. 316; see Blouet, p. 15 and Plate 16) does not require refutation.

The Asimaeans, Pansanias tells us, were Dryopes who originally lived in the neighbourhood of Parnassus: they subsequently inhabited Asine in the Argolid, whence they were driven by the Argives, and received from the Lacedaemonians a home on the Messenian Gulf; probably the ancient name of the town was Rhium (Curtius, p. 168). They had a temple of Apollo and a sanctuary and ancient image of his son Dryops. When Asine received the name Corone and what caused the migration of the Coroneans to this new home we cannot tell. Hierocles (647, 16) still distinguishes between Kopωνία and 'Ασίνη, but in the thirteenth century the change has been made, and Asine is replaced by Korone.

#### IV .- Kastelia-Vounaria.

There is evidence that the coast N. of Asine was inhabited in antiquity.

A little distance to the N. of the bamlet of 'Ayla Touisa the path crosses

and has destroyed the edge of a mosaic floor, said to have a pattern ( $\kappa \Delta \tau_i$   $\sigma \chi \dot{\epsilon} \delta (a)$ ) on it and to be composed of testrate of ten colours: those which I saw in the small exposed surface were white, light red, and dark red. Close by is a tomb built of large, roughly-cut slabs: the largest measured  $1.5 \times 6 \times 13$  metres, and is said to have been even longer when found, but to have been subsequently broken. In the church of  $\Delta \gamma \iota \sigma_i$   $\Delta \tau_i \sigma_i \sigma_i$  is at  $\delta \iota \sigma_i \sigma_i \sigma_i$  I was shown an ornate stele of hard white limestone with an epitaph (No. 7) and a smaller uninscribed one with acroteria; both of these were

found in the ruins of a chapel near the village.

Close to the sea shore some five miles N. of Korone are two striking eminences. The southern one is the higher, and rises to a sharp rocky peak crowned with a chapel of "Αγ. 'Ηλέας: that on the N. is less steep, has a flatter top, near which stands a chapel of "Αγ. 'Ιωάννην, and is locally known as Γούλα or Γ'ουλέ. On the western, or landward, side of these hills lies the village of Kastelia, and, somewhat S.W. of it, Vounaria. In 1886 a severe earthquake wrecked the former, and a considerable proportion of its inhabitants moved down to the plain immediately to the N. and there, close to the sea shore in a more convenient and better watered position, founded the village of Kandianika or, to give it its official title, New Korone. Half a mile further N. runs the river of "Αγ. 'Ανδρέας, with a hamlet of the same name slightly beyond it on the shore. This serves as a port for Longá, the capital of the dome, which lies well up on the hill-side to the N.W.

Leake refers (p. 438) to Kastelia as an ancient site, but did not himself visit it: Boblaye (p. 111) speaks of various fragments of architecture and sculpture as found 'sur Is sommet de la colline de Kastélia.' I was shown a gravestone from the seaward side of "Ay. 'Hλίας (No. 8), and discovered in the earth at the eastern foot of Γούλα a flat, circular 'loom-weight' of reddish clay (diam. '11 m.) pierced with two holes near the edge, and a fragment of a catalogue of sphebi (No. 9). This seemed to have fallen from above in one of the small landslips which frequently take place there, since the hill is composed of earth and the sea appears to be rapidly encroaching on it. Another inscribed fragment, probably belonging to the same stele, had been found at the same spot a few days previously, but had in the meantime been washed away by the waves. On the S.E. slope of "Ay. 'Hλίας ancient tombs have been found. I saw one or two vases which came from this spot, and a terracotta representing a woman carried on the back of a silenus.

The remains of late Roman or medieval buildings are considerable. On the N.E. slope of Goula are the ruins of a tower built of stones and mortar with large ashlar blocks at the quoins. Higher up is the mouth of a passage with plastered walls running into the hill: twenty years ago, I was told, it could be followed by a man walking upright for ten or twenty metres, but it has now fallen in and is blocked with earth and stones. On the top is a tower, about ten yards square, now entirely ruined, and just below is a vaulted chamber, originally consisting of two stories: its roof, which is on the ground level, is pierced with a skylight, and there is an entrance facing the sea,

hidden and protected by a small forecourt

Pausanias' account of his route from Corone (Petalidhi) to Asine (Coron) is in outline as follows: Έκ Κορώνης δε ώς ογδοήκοντα σταδίους προελθύντε Απόλλωνός έστιν Ιερον προς θαλάσση (34 § 7) ... τῆ Κορωναίων δε πόλει έστιν ϋμορος Κολωνίδες . . . κείται δέ το πόλισμα αι Κολωνίδες έπι ύψηλοῦ μικρον άπο θαλάσσης (§ 8)... Κείται δὲ ἐπὶ θαλάσση [ Ασίνη] ... σταδίων δε τεσσαράκοντά έστιν εκ Κολωνίδων ες αυτήν άδος (§ 12). In this narrative we miss all reference to the distance separating the Apollo temple from Colonides: we may fairly conclude that they were not far apart, a supposition borne out by the fact that Asine is really about 120 states from Corone, the sum of the distances, as given by Pausanias, from Corone to the Apollo sanctuary and from Colonides to Asine. Again, the boundary is mentioned in such a way that we must suppose the sanctuary to have been within the territory of Corone, but close to that of Colonides. Now most topographers (Leake, p. 445, Blouet, p. 15, Bory, p. 326, the French Map of 1852, and the Austrian Staff Map of 1885) have placed Colonides at Korone (Coron), which is inadmissible as robbing us of the sole possible site for the important town of Asine, and removing Colonides about forty stades from the Apollo sauctuary, which is by these topographers placed at or above Kastelia. Boblaye's view (p. 112) that Colonides lay near the W. coast of the peninsula at Grizi may also be dismissed as violating the data of the problem. We are left (Frazer, p. 449) with two theories, that of Leake (Peloponnesiaca, p. 196) and Bursian (p. 173) which places Colonides at or above Kastelia and the Apollo sanctuary a little further N., perhaps near the river of "Ay, 'Avopeas, and that of Curtius (p. 167), who retains the site above Kastelia for Apollo 15 and sets Colonides near it but a little further inland. Of these two I accept the former, especially as I was told of houses with πιθάρια ' and squared blocks of marble found in two adjacent fields near the left bank of the "Ay, 'Arôpeas river, which may well have been in ancient times the boundary between Corone and Colonides, as to day it divides the demes of Almeia and Kolwides. It is true that the distance from Petalidhi is less than eighty stades, but we may notice that Pausamas expressly qualifies the number by a we, and if Heberdey is right in supposing that Pausanias sailed along this coast rather than traversed it on land, such a mistake is all the more intelligible. Colonides would then be just about the required forty stades from Asine and would be well described as 'on a height a little way from the sea ': these are just the two points that most strike the traveller who approaches from the north, the rapid rise from the plain of Kandianika to the villages of Kastella and Vounaria, and the fact

In his map of Messenia, however, Cartius has followed a supposition of Bobbrye, and has placed the Apollo temple considerably N. of Kantelia. In his note No. 41 (p. 195) we should of course road "Desi Visitel wags you Petalidi

his Kestelia for 'Dyo! Viertal wegs you Coron his Kastelia."

<sup>&</sup>lt;sup>18</sup> Die Reisen des Pausanias (Vianna, 1894), p. 65 foll.

that between them and the sea lie the eminences of "Ay. 'Haias and "Ay. 'Iwainnys, so that to reach the shore the inhabitants must descend into the plain to the N. of the villages. But I admit that this explanation has difficulties which can best, perhaps only, be settled by an appeal to the excavator's spade.

#### V .- Petalidhi.

All modern travellers have agreed in placing Corone at the modern village of Petalidhi. Pausanias speaks of it as lying ἐν δεξιᾶ τοῦ Παμίσου πρὸς βαλάσση τε καὶ ὑπὸ τῷ δρει τῷ Μαθία <sup>17</sup> (iv. 34-4), which must be the modern Mt. Lykódhimo (3140 ft.). On the road thither from the mouth of the Pamisus is a place on the shore, not yet identified, sacred to Ino, who here emerged from the sea as the goddess Leucothea. Near it is the mouth of the Bias, but we have no means of determining which of the rivers of this coast—the River of Jori, <sup>28</sup> Typhlós, Velíka, Skariás and Jané—bore this name. <sup>19</sup> Corone was held to occupy the site of the Homeric Aίπεια, and when the Messenians were restored by Epaminondas it was founded by Epimelides of Coronea in Boeotia, who called the place after his native city. His tomb was shown to Pausanias, who also saw at Corone a temple of Artemis 'Child-Rearer,' Dionysus and Asclepius, as well as statues of these two last deities, Zeus Soter and Athena.

Ancient remains are here comparatively numerous,<sup>20</sup> though subjected even to-day to sad depredation in the search for building material. The acropolis rises immediately S. of the present village. On the E. and S.E. it falls rapidly, almost precipitously, down to a ravine in which runs a small stream, but on the W. it is united by a saddle with the foothills of Lykodhimo. At this spot, known as Hôpτes, two tombs had been discovered side by side a few days before my arrival: they were formed of large slabs of limestone, but I was unable to see any of the objects which had been found in them. There are clear indications of the presence of other tombs in the immediate neighbourhood. On the southern and western sides of the acropolis are considerable remains of the foundation-courses of a Hellenic wall, doubtless

such statement in Leake, who, however, erroneously says that the Velika 'flows into the sea a little to the southward of Petalidhi' (loccit). Curtim himself at first (Bull, of J. 1811, p. 43) wrote that the Velika 'sman dubble i l'antico Bias, but afterwards (Peleponnessa, lip. 164) suggested that 'der Bias ist violistent dur heutige Djame,' an opinion shared by Fenzee (Map V).

The fullest descriptions are those of Hory (p. 332 foll.), Currius (Ratt. d. I. 1821, p. 48 foll.) and Welcker (Tagebuch, i. p. 233 foll.).

If This reading means preferable to the ἀπὸ τῷ ἔροι Τομαθία of some MSS, and the earlier aditors, and to the τῆ Ἡμαθία proposed by France and followed by Kiepert.

<sup>&</sup>quot; Nτζορίδες Ντζορίδεο ποτάμι, so called from the village of Nτζόρι on its left bank: Louke (p. 390) and Bloom (p. 18) write this name Τζιτζώρι (Djidjörk Gigiori).

<sup>&</sup>lt;sup>30</sup> Blonet (p. 18) identifies it with the Nτζορέδες, but without giving his grounds; so also Pompioville (*Popage*, vi. p. 56). Curtins (p. 195) speaks of Leake (p. 596) as seeing in the Val(ka the sneamt Riss, but I cannot find any

belonging to the fourth century B.C. Various marble fragments lie about and in one field is the lowest course of a wall of ashlar masonry, while in another are some rock-cuttings, apparently for a small theatre-like building, perhaps a βουλευτήριον or a small theatre. On the N.W. slope are several Roman brick buildings; one with two custome was perhaps a bath. I saw nothing of the sculptures described by previous travellers, but a large marble head from this acropolis is now in the house of Mr. C. Bebonis at Korone, and in Petalidhi I saw a stele (ht. 76 m.) with a relief of a female figure standing full-face: the upper part, and with it doubtless the inscription, is lost, but the relief is complete.

The second field of discovery is the fertile plain which lies to the N. and N.W. of the Aeropolis, and is partly occupied by the northern portion of Petalidhi. This seems to have been the main site of Corone in Roman times, when convenience rather than security became the first consideration. Here various foundations and architectural fragments have been found. One spot is called Aoutpo or Aoutpa from the remains of a Roman bath; another has the name Φόρος, a survival of the Italian form and perhaps indirectly of the Latin forum. Several white marble sarcophagi have also come to light here (Curtius, Bull. d. Inst. 1841, p. 44 foll.; Le Bas-Waddington, Mon. Fig. Pl. 99, 100), and an inscribed herm (No. 11). I was also shown a small sepulchral relief of white murble and the base of a statuette, both found in the northern part of the village; the latter perhaps represented Ganymede and the eagle. though only a human foot and ankle and the talons of a bird are now left,

#### VI.—Inscriptions.

1. In the rained church of 'Aγία Σοφία in the fortress of Methone (Modon). Block of white marble, originally a stele, converted later into a Byzantine capital. Height 76 m.; breadth 54 m.; thickness 21 m.; height of letters '025 m. The inscription ends '32 m, from the foot of the stone,

> NA AL JEFTOYAL Y PWMAIWNFIOYAGIAIT **WCPWMAIWNYIOCHA** I : WNTHCTTO A E W CKAICTPA **HEOCTHCAAMTPOTATHCAP** 5 I WNTO A EWCKAIAT WNO GETHO ACTEIWNKAINEMEIWN TT FYMNACIAPXOCIOYBKAIKTO Y APMOCIOYBKAIKMOYCATOY CEYMNACIAPXOYKAITIPOC TATOYKAITTATPOCTHCTTOAEWC KAIDICYNAPZANTEC

10

[γυμ](να)[σί]α(ρ)[χ]ος Γ. Τουλ, Λ - - - [ἴερε]ὑ[ς] † Ρωμαίων Γ. Τουλ. Φιλιπ--[ἴερέ]]ως "Ρωμαίων υἰος, πά- (τρ)ων τῆς πόλεως και στρα-

- [τ]ηγός τῆς λαμπροτάτης 'Αρ (γ)είων πόλεως καὶ ἀγωνοθέτης
   [Σεβ]αστείων καὶ Νεμείων,
   [ύ]π[ο]γυμνασίαρχος 'Ιουβ, Καικ, Πο [λ]ψ[χ]αρμος 'Ιουβ, Καικ, Μουσαίου
- [υἰὸ]ς γυμνασιάρχου καὶ προσ-(τ)άτου καὶ πατρος τῆς πόλεως καὶ οἱ συνάρξαντες.

The letters are late in form and careless in execution, while the damaged state of the surface of the stone makes the reading difficult in

many places and impossible in some parts of the left margin.

This is probably the last part of an inscription on a statue base, of which the opening lines, containing the name of the person honoured, are now lost. The statue is erected by the gymnasiarch, the under-gymnasiarch, and the colleagues of the man commemorated. The gymnasiarch seemingly holds the office of lepebs Popular, a title which I cannot find elsewhere, and occupies a position of distinction. The under-gymnasiarch, Inventius Caecilius Polycharmus, was probably a young man at the opening of his public career, and no titles are added to his name. The reference to Argos makes it seem that the inscription really belongs to that city rather than to Methone.

 On a fragment of white marble built upside down into the south wall of the rained church of "Aγία Σοφία in the fortress of Korone (Coron).

#### ANHEASKAADIO

# - [φ]άνης ('A)σκλ(α)πιῶ[ι].

The letters are small and well formed, but the surface of the stone is much damaged.

3. In the fortress of Korone (Coron). On a base of blaish marble. Height 63 m.; breadth 65 m; thickness not exactly ascertainable, as the stone is partly buried in the ground. The heights of the letters (·03-039 m.) and the distances between the lines are very variable, but a great effort has been made to secure uniformity of letters in each separate line by means of roled lines at top and bottom.

AYTOKPATOPAKAI

CAPAAOYKIONEE

TITIMIONEEOYHPON

TEPTINAK& CEBACTON

HTTOAICTONANEIKH

TONETIONABIOY

CAIGI/ MAOFICTOY

KAIFPAMMATEOC

AIMIOYO/ INIAOY

Αὐτοκράτορα Καίσαρα Λούκιου Σεπτίμιου Σεουήρου
Περτίνακ(α) Σεβαστου
δ ή πόλις του ἀνείκητου ἐπὶ Φλαβίου
Σαιθί(δα) λογιστοῦ
καὶ γραμματέος
Αίλίου Φ., ινίδου.

The Emperor Lucius Septimius Severus reigned from 193 to 211 A.D., when he died at York. The absence of the titles Arabicus Adiabenicus, which he assumed in the summer of 195 (Clinton, Fasti Romani i, p. 196), proves that the present inscription falls within the first two years of his reign. Cf. the legend on coins of 193 and 194 A.D (Eckhel vii, 166-171), Imp. Um. L. Sep. Sev. Pert. Aug., of which the title in the inscription is an exact translation.

The name Σαιθίδας is an uncommon one. In Le Bas-Foucart 319 (Messene) a certain Τ(β. Κλ. Σαιθίδας Καιλιανός ὁ ἄρχιερεὺς (τῶν Σεβαστῶν) διὰ βίου καὶ Ἑλλαδάρχης is mentioned as defraying the cost of a statue of the Emperor Marcus Aurelius in 139 A.b. His stemma is as follows:

Tib. Chandina Frontinua [1]

Tib. Cl. Saothida Caelinana (2)

5

Tib. Cl. Frontinus Niseratua (3)

Tils. Ct. Saethida Cethegus Frontinus (4)

(1) Consul suffector (year unknown): 1Julian, Dig. lv, 2, 18.

(2) Le Bas-Foncart 310 (Messone), quoted above: Foucart proposes to restore the name in C.I.G. 1396 (Sparta): C.I.L. iii. 493 (Messene, 164 a.D.): C.I.L. x. 1123 (Abellimum, on the boundary between Sammium and Campania). His cursus honorum, Borghesi, (Europes completes iii. 199 note.

(3) C.I.G. 1133 (Argos), 1327 (Sparta); C.I.L. iii. 495 (Messene), x. 1122, 1124

(Abellinum).

(4) C.I.L. z. 1124 (Abellimini), vi. 16440 (Rome).

Foncart supposes that Tib. Claudius Frontinus married a Messenian lady of the rich and influential family of the Σαιθίδαι (see below), and thus

accounts for the presence of his two sons at Messene, and for the cognomen borne by his elder son and one of his grandsons. Perhaps a second member of the same family married a Roman of the Flavian gens. The name Σαιθίδας, which is found only in the inscriptions above cited, should probably be restored in Pausanias iv. 32 § 2 \* \* \* δε έμαυτοῦ πρεσβύτερου ὄντα ευρισκου, γενομένω δέ οι χρήμασιν ουκ άδυνατω τιμαί παρά Μεσσηνίων ύπάρχουσιν άτε ήρως, είσι δε των Μεσσηνίων οι τώ Αίθίδα χρήματα μέν γενέσθαι πολλά έλεγον, οὐ μέντοι τοῦτόν γε είναι τον ἐπειργασμένου τῆ στήλη, πρόγονον δε και όμωνυμον άνδρα τώ Αίθίδα. Αίθίδαν δε τον πρώτερον ηγήσασθαι τοις Μεσσηνίοις φασίν, κ.τ.λ. Hitzig and Blumner, following a conjecture of Foucart, restore \(\Sigma\_{al}\theta\theta\_{a}\), \(\Sigma\_{al}\theta\theta\_{av}\) throughout

this passage, the name Albičas being unknown.21

The Greek word λογιστής a corresponds to the Latin curator reipublicas or civitatis (Gordian Cod, Inst. i. 54, 3 curator respublicae qui graeca vocabula logista nuncupatur), and is the title given to an imperial officer appointed to superintend the financial administration of one or more cities, or, more rarely. of a province. The date at which the office was instituted is a matter of debate, but it would seem that, save for one or two exceptional cases, the first emperor who attempted in this way to reform the financial maladministration of the Italian cities, the civilates liberas and the towns of the Senatorial provinces was Trajan. The \lambda oyiorai seem to have been generally appointed for a term of years, and often held this title in conjunction with others, or else a single λογιστής undertook the financial oversight of a group of neighbouring communities. Their competence was very wide, extending even beyond the supreme control of all that affected the financial condition of the cities over which they were set; 'wherever necessary they had the right and the duty of interference and of enforcing the will of the sovereign whose delegates they were ' (Liebenam, Philol. Ivi. 315).

In Greece itself we find loyioral at Athens (I.G. iii. 1, No. 10 o κράτιστος πρεσβευτής [αυτών και άντιστράτηγος] και λογιστής της πατρίδος ήμων), Epidaurus etc. (I.G. iii, 1, 677 λογιστής κατά πε[ρίαδον . . .] Έπιδαυρίοις, Χαιρω[νεύσι . . .] Κορωνεύσι, Θηβαίοις), Troczen (I.G. iv. 796 τειμηθείς λογιστέα ύπο της βασιλείας είς δεκαετίαν), and Sparia (C.I.G. 1399): cf. LG, iii 1, 631 υπατος, πρεσβευτής και άντιστράτηγος του Σεβαστών, λογιστής και έπανορθωτής των έλευθέρων πόλεων. Of the islands of the Aegean we find Loyiovai in Andres (LG. xii, fasc. 5, pars 1, No. 758) and Rhodes (I.G. xii. fasc. 1, 83 f). In Asia Minor they are found at Aphrodisias (C.I.G. 2741 (1), 2790, 2791), Bithymia (C.I.G. 4033, 4034 πεμφθείς είς Βειθυνίαν διορθωτής και λογιστής ύπο θεού Αδριανού).

D Frazer retains the name Asthidas, and quotes (linte and for., vol. nit. p. 434) Lunke, Morres, I. 283 foll. 'In the village of Maxeomati I find an inscription in which occurs the name of Asthidas, cle. There is no doubt, however, that Leaks misread the inscription (C.L.G. 1318, Le Bus-Fourart 319).

<sup>=</sup> The Latin term loyida is found as a retranslation of the Greek, and therefore only in reference to those who held the office in Greek communities: s.y. we have in C.I.L. ii. 4111 the same person referred to us curates crestative Temenation (in Apulia) and as logista civilatis splendidizarmae Nicomedensium.

Cyzicus (C.I.G. 2782 λογιστής μετὰ ὑπατικοὺς δοθείς τῆς Κυζικηνῶν πόλεως), Ephesus (C.I.G. 2977, 2987 b, Le Bas-Waddington 147 a, C.I.L. ii. 4114, Orelli 798), Eumeneia (C.I.G. 3886 ἐγλογιστεύσας), Magnesia al. Macandrum (C.I.G. 2912 λογιστεύοντος Κρίσπου 'Ασιάρχου), Nicaea (C.I.G. 3747, 3748 C.I.L. v. 4341), Nicomedia (C.I.G. 3771, 3773, C.I.L. ii. 4114, v. 4341, vi. 1408, Orelli 798), Chlyessus and Synnada in Phrygia (Head, Hist. Num. p. 561, 569), Smyrna (Philostratus, Vitae sophistarum i. 19), and Tralles (C.I.G. 2926 ὁ ὑπέρτατος λογιστής καὶ κτίστης τῆς πατρίδος): in one case (C.I.G. 3497) we find a group of cities under one λογιστής—λογιστής Σελευκείας Πειερίας καὶ 'Αλεξανδρείας κατ' Ίσσαν καὶ 'Ρωσσοῦ καὶ τῆς τῶν Τραϊανῶν πόλεως καὶ Τροπησίων καὶ τῆς Κολωνείας. The office also occurs in Egypt (C.I.G. 5085, 5090, 8610, Οργικηνικήνης Papyri I. 42, 52, 53, 66, 83-87, Acta S. Didymi et Theodorae 304 κ.D. ad 28 April) and Syria (C.I.I. x. 6006; † C.I.G. add. 4662 b).

For further details regarding the curatores civitation and λογισταί see Henzen, Ann. d. I. 1851, 5 foll.; Degner, Quaestionis de cuvatore rei publicate pars prior, Halle 1883; Mommsen, Röm. Staatsrecht<sup>5</sup> ii. 2 857, 861, 1082; Marquardt, Röm. Staatsverwaltung <sup>2</sup> i. 162 foll.; Dar-Sagl. i. 2. 1619 foll.; Ramsay, Cities and Bishoprics of Phrygia, ch. x § 6; Liebenam, Philol. Ivi.

1897, 290 foll.; Pauly-Wissowa, s. v. curatores iv. 2, 1806 foll.

The phrase λογιστεύοντος τοῦ δείνος occurs in LG. xii. 5.758, C.I.G. 1399, 2912, 3771, 3773, and έπὶ τοῦ δείνος πρεσβευτοῦ καὶ ἀντιστρατήγου τοῦ Σεβαστοῦ καὶ τοῦ δείνος τοῦ λαμπροτάτου λογιστοῦ in C.I.G. 3747, 3748.

4. On a block of white marble, of which the left margin is preserved. Found in the southern part of the modern town of Korone, and now in a house close to the chapel of Παναγία Έλεηστρια. Height 54 m.; breadth 2 m.; thickness 13; breadth of written surface 12 m. The stone seems to have been at some time converted into a Byzantine capital.

TAIOEAKYA JANACIAPX JANACIAPX AEI

I'(ά) ioς 'Aκυλ[είνος vel sim. - - - γυ] μνασίαρχ[ος - - -

The inscription begins 265 m, from the top of the stone; the letters are late in form and careless in execution.

5. On a marble fragment in a field S of the fortress of Korone. Height 2 m.; breadth 17 m.; thickness 315 m. Parts of the top and left edges are preserved. The surface is almost entirely destroyed, and the reading of several of the letters is uncertain. Height of letters ca. '015 m.; slight apices. OY

NCIT

ΠΡΗΤΟ

ΟΙΕΕΝΡΟ L 3 πρωτα - - L 5 ξ [κ]οινοῦ,

5 CINOY L 8 μέχρι.

VWIEAF

ONAIKIM

MEXPIF

 ΑΡΧΙΔΩ
 'Αρχιδώ

 ΧΡΥΣΙΠΠΟΥ
 Χρυσίππου

 ΙΕΡΕΙΑ
 ἐἐρεια [διᾶ]

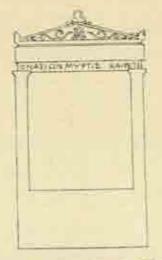
 ΓΕΝΟΥΣ
 γένους

The letters, which are irregularly formed and have prominent apieces,

date probably from the 2nd century a.r.

The name Apxion does not, so far as I am aware, occur elsewhere. For the term lepeds, lepera bia vérous of Collitz-Bechtel 4656 (Messene); I.G. sii. 2, 102, 116, (Myttlene); I.G. xii. 3, 494, 516, 522 L, 865 (Thern). A further example from Thera is afforded by the famous Testamentum Epictotae (LG xii 3, 330 lines 58 foll.), var & leparelae var Movaar sai τών ήρωσου έχέτοι ο τας θυγατρός μου υίδς Ανδραγόρας, εί δέ τί κα πάθη ούτος, από ο πρεσβύτατος έκ του γένους του Επιτελείας. At Gythion a similar family tenure of the priesthood of Apollo is granted to Philemon and Theoxenus (Collitz-Beebtel, Summing 4567 L 23 foll.): civas avrois lepeis του Απολλωνος και έγγονους αύτον del δια Βίου .... και είναι αύτοις τα τίμια και φιλάρθρωτα πάρτα όσα και τοις άλλοις ικρεύσιν τοις κατά γένος. brdoxes 8.7.3. Macandrina of Samos, to take an earlier instance, in offering to lay down the tyranny stipulates as one condition (Herodelus iii. 142). έρωστύνην ... αίρεθηκε αύτω τε μοι και τοίσι άπ έμεθ αίει γενομένοισε τού Διος του Έλουθερίου, while Telmes of Gela executed a successful comp έπ' ο τε οι άπογονοι αυτού ιροφαίνται του θεών Ισανται (Herodotas vii 153). See also C.f.G. 2635 (Halicarnassus) with Boeckh's notes. The priestly families of Athems are discussed in Toepffer, Att. Genealogie, Bossler, De gentibus et families Atticos succedotalibus, Martha, Les Sacerdoces Athénicas, etc. In Έφημ 'Αρχαιολ. 1892, μ. 24 (Amyelneum) ότα γένους and κατά γένος occur side by side with the same meaning. Cf. C.I.G. 1353, 1855.

7. Found in a ruined chapel near the village of Κόμπω in the demo Colonides, and now preserved in the church of "Ayrox Βασίλειος. On an ormate stelle of white limestone with pediment and acroteria. Height 82 m.; breadth 45 m.; thickness about 065 m.



#### ONATION MYPTIS XAIPETE

'Ονασίων, Μύρτις, χαίρετε.

The letters are clearly and carefully inscribed, and belong to the first or second century s.c. The whole stele is in an excellent state of preservation.

The name 'Oracler occurs at Sparta (C.L.G. 1368), Beremee in Cyronaica (C.L.G. 5361), Aegosthem (L.G. vii. 209), Parcs (L.G. xii. 5, pars 1, 232) and

Rhodes (L.G. xii. 1, 18).

The gender of the name Morris is doubtful. It was borne by two Argives (Demosthenes xviii. § 365, p. 324, Polybins xviii. 14, Harpocrat. s.c.; Theophrastus up. Athenaeus vi. 254d), and also by the celebrated lyric poetess of Authedon, the instructress and rival of Pindar. It occurs in I.G. ii. 3993, 3994, iii. 3291 (Attica), iv. 149 (Augina), and xii. I, 626 [7] (Rhodes), but in none of these cases is there any means of determining the gender.

 Found on the eastern slope of the hill called "Aγιος 'Hλίας above Kastelia. On a thin stone tablet; length '20 m.; breadth '20 m.; thickness '02 m.

# XAIPE

# Ebnana, | xaipe.

To the left of I. 2 a leaf is incised, and below the inscription is a twig with four leaves. The letters are boldly and clearly, if somewhat irregularly, engraved.

The name is a fairly common one; it occurs in Athens (I.G. iii. 61 a iii. 8 ii.; 1280a), Rhodes (I.G. xii. 1. 671), Rome (I.G. xiv. 1607a; U.I.G. 6466), Lycia (C.I.G. 4290), etc. (C.I.G. 7309, 8514). Εσπλοίος also occurs frequently, and Εσπλοίος (I.G. xiv. 1936) and Εσπλοίος (I.G. vii. 3468) are each found

once. Εθπλοια was a well known epither of the Chidian Aphrodite (Pausanias i. 1. 3; C.I.G. 4443. Cf. Farnell, Cults of the Greek States ii. 689).

 Found on the sea shore at the foot of the hill known as Γούλα above Kastelia. On a fragment of a white limestone stele, of which portions of the upper, right and left hand edges are preserved. Height '195 m.; breadth '27 m.



Έπὶ γραμματέος Ειθμεν[ίδα ]]
γυμνασιάρχου δὲ
-- οκράτεος τοῦ Ξενιάδα
[ὑπογυ]μνασιάρχου δὲ Δεξίω5 [νος τοῦ 'Α]λκιάδα, Έφηβοι-- ς Χρησιμίδα
--- ς Φίλωνος
--- 'Αριστίχου
--- (ς) Διοσκ[ορίδα ]]

The letters are well and clearly incised, and seem to belong to the second century B.c.

In the first line we must restore Eὐμεν[iδα] or Εὐμέν[oνς]: the space is insufficient for Εὐμέν[ωνος] (LG, iv. 1485, l. 93), and the name Εὐμένιος, borne by the celebrated rheter of Autun, is not found till the third or fourth century A.D. It is not possible to restore the first name in l. 3.: either two or three letters precede the -ακράτεος, but Bechtel-Fick (Griech Personanamen, p. 173-5) give no fewer than twenty-seven names which fulfil this condition. In l. 9 Διασκ[αυρίδα] might be the true reading: the names Διόσκορος (see Pape-Benseler, and add LG, iii, 1160, 1192, 1202, 1267 t).

Διοσκόριος (Suidas a.e.) and Διοσκόρας (C.I.G. 1495) also occur, but are very rare. Of the remaining mames mentioned in the inscription Ξενιάδας occurs at Corinth (I.G. iv. 352), while Ξενιάδης is the name of two Corinthians (cf. Pape-Benseler, Wörterbuch): Δεξίων is found only in I.G. vii. 299 and Cicero in Varr. act. ii. lib. 5, cap. 42 (where the better supported reading is Dexo), and as a title bestowed upon Sophocles after his death (Etym. Magn. s.v.): 'Αλκιάδας appears to be unknown, though 'Αλκίδας (I.G. xii. 1, 922) and 'Αλκιάδης (I.G. xiv. 5) occur: 'Αρίστιχος is found at Thespiae (I.G. vii. 1742) and Hyettus (ibid. 2816), and 'Αριστίχα, 'Αρισστίχη at Tanagra (ibid. 799, 800): Χρησιμίδας I cannot find elsewhere, though the name appears in the form Χρηθμίδας in an inscription of Octvius.

A discussion of the office of the ἐπογυμνασίαρχος by M. Glotz will be found in Dar.-Sagl, vol. ii. pt. 2, p. 1679 s.v. Gymnasiarchia, together with a list of the places where the title occurs. To that list must now be added Argos (†) (No. 1 above) and Troezen (I.G. iv. 753 add. p. 381), while for Thera <sup>24</sup> there is the further evidence of I.G. xii. 3, 338, 339, 342, 391a, 392a, [395], 517, and for Pergamum that of Inschr. von Pargamon 256, 323, 467, 468.

The γραμματεύς of line 1 is probably the γραμματεύς ἐφήβων rather than an eponymous magistrate: in the latter case we should expect the formula ἐπὶ γραμματέος Εὐμεν[ίδα], γνμνασιαρχοῦντος - - οκράτεος κ.τ.λ.

10. Found near the village of Remoustapha in the deme Aίπεια. On a stele of hard white limestone, of which the upper part is lost. Height 26 m.; breadth 28 m.



According to Lolling's copy: Leonardos (col. cit. mid. p. 744) must Asperers.

For There M. Glotz quotes C.I.G. 2461; this should read 2466 (= I.G. xii. 3, 392 x).

By a curious coincidence, however, C.L.G. 2461 as asstored by Hiller von Gastringen in L.G. rii, 3, 517 does mention the despensariances.

The letters are small, but carefully engraved, and point to the latter part of the third or the first half of the second century B.C. as the date of the inscription. The forms of the  $A \Sigma \odot \Omega$  are earlier than those of the Andania mystery-inscription (ca. 91 B.C.), where they appear as  $A \Sigma \odot \Omega$ . The letters  $\odot \odot \Pi \Omega$  are considerably smaller than the rest: of this dwarfing of  $\Pi$ 

I know no other example.

We have here the close of a document regulating the observance of the sacred feast ( $\delta\epsilon i\pi\nu v v$  I, 2) at a Demeter temple of the existence of which we first learn from the present inscription. All infringement of the rules is to be punished by a fine of 200 drachmas, which are to go into the sacred treasury. The thoinarmostria passes sentence, which she also executes in conjunction with the  $i\epsilon\rho ai$  and anyone else who happens to be present: if, however, she is privy to the offence or is herself the offender, the exaction of the fine devolves upon the  $\beta i\delta v i v s$ , who are also entrusted with the duty of having a copy of the ordinance engraved in stone and set up below the temple of Demeter.

L. 1 We may perhaps restore [εὐ](κ)οσμίαν: ef. the Andania inscription already referred to (Collitz-Bechtel 4689), l. 39, where a chapter is entitled ἀκοσμούντων.

L. 2 Δείπνον of, loc. cit. L 95 ίερου δείπνου.

Eρψεῖ Dor, future of ἔρπω. The word is frequently used in a ceremonial sense, e.g. C.I.G. 2554 l. 77; 2556 l. 33, 35, 38;

LG. iv. 951 l. 79, 86.

L. 4 Θοιναρμόστρια, 'the mistress of the banquet' The word occurs elsewhere only in C.L.G. 1435, 1436, 1439, 1446, 1451 [=Collitz-Bechtel 4522]; <sup>20</sup> Collitz-Bechtel 4689 I. 32; and in an unpublished inscription from Kalyvia Sochas (near Sparta). In the first two cases it is spelt θυναρμόστρια (cf. Θύναρχος LG, vii.

<sup>⇒</sup> hierarca's restoration decrapaserpase size at the end of L 4 are perfectly plans on the 
[Δα(s)iny must be abandoned, as the betters AP stame.

1098, 2721, etc.), in the last it appears as σειναρμόστρηα. It may be shown, I think, with considerable probability that the title occurs only in connection with the worship of Demeter and Cora. The unpublished inscription referred to is a dedication to these goddesses; in Collitz-Bechtel 4689 the reference is expressly to Δ θαιναρμόστρια Δ els ΔΔματρος, and our present inscription plainly refers to the Demeter cult. This leaves us with C.I.G. 1435, 1436, 1439, 1446, 1451. Now

 C.I.G. 1435, 1436, 1439 occur in a group of inscriptions. copied by Fourmont Στώ Σκλαβοχωρίω in temple (1438, prope templum) Apollinis, and consisting of C.I.G. 1402, 1407, 1434-39. 1443. That these were all found together is confirmed by their homogeneous character: all are honorary inscriptions on the bases of statues, and of the nine statues seven were certainly, all probably, those of women. Since, then, three of these (1402) 1439, 1443) have been rediscovered at Kalyvia we are naturally led to see in Fourmont's 'templum Apollinis' the church of 'Ayla Σοφία at Kalyvia, or some site close by from which its stones were taken. But the late Dr. von Prott adduced strong reasons 28 for identifying this site with the 'Executivor referred to by Pansanias (iii. 20, 7). He speaks of Weihungen an Demeter und Kora ' (presumably the unpublished inscription above cited and C.I.G. 1434), die einmal ausdrücklich als Exergina bezeichnet werden '(Tsountas, 'Εφ. 'Αρχ. 1892 p. 26 No. 9). The probability seems to me to gain strength from the fact above noticed that seven of the nine inscriptions from the site copied by Fourmont-and, we may add, two of the three added by Tsountas, loc. cit.—are certainly in honour of women.

(2) C.I.G. 1446 was found by Fourmont 'στῶ Βίτξα'. Where this is I do not know, but it is noteworthy that the inscription from I. 5 to I. 18 reproduces word for word one found at Kalyvia (Tsountas, loc. cit. p. 25 No. 8), and the two must therefore refer to the same woman, Κλαυδία Δαμοσθένεια Πρατολάσυ,<sup>20</sup> who is expressly referred to as ίξρεια Κόρας.

(3) C.I.G. 1451 was copied by Fourmont Στῶ Σκλαβοχωρίω prope templum Ongue. It also is now at Kalyvia. The refer-

#### ACMAH ACMAH

TOY

[προσ]|δεξαμέ[ναυ τέ ἀνα]|λωμα Πά(πλίου)---|
(π)υθ (ἀ][κθρός].

22 Athen. Mitterl. xxix 1994, p. 7 foll.

22 The I C C in Taxantan first line is certainly.
I think, to be restored [KAan Asland[discust]
\*\*Improvedool.

For the representation of θ by σ in Esconian inscriptions of, δεόσησε (Collits-Bechtol 4500), σία (= θεόν, ἰδιόι 4144, L 51), and various names with initial Σεις Σία (= Θεού), σ.θ. Σειμηδητ, Σείτειμου, Σιδέστας, Σίπομπου, εία. Purhops to a fulse analogy is due the ει of σεισαρμόστρημε.

The C.E.G. 1445 one line has been omitted; after i. 5 we should read

ence to α είς τὰς θεὰς εὐσέβεια lends us a priori to connect the woman named in it with the cult of Demeter and Cora.

Since we have thus connected the title of θοιναρμόστρια with the worship of these two goddesses, we may argue inversely that since the term is found in four (C.I.G. 1435, 1436, 1439 and the unpublished text) or possibly five (? C.I.G. 1451) inscriptions from Kalyvis and must be restored in a sixth (Tsountas, 'Εφ. 'Αρχ. 1892, p. 25, No. 8), the source from which those stones were derived is very probably the 'Ελευσίνιου.

L. 5. r is a modification of r, the usual sign for drachma in Attic inscriptions: it recurs at Cuidus (Brit. Mus. No. DCCXCV) and Thera (I.G. xii. 3. 327 l. 14 corrigendu). At Lindus the sign ∠ is found (Brit. Mus. CCCLVIII) and x at Pergamum (Inschr. von Perg. 374 D 7): this latter sign usually denotes the denarius, which was equal in value to 1½ Asiatic drachmas, and is so used in the inscription cited (B 22, 25, C 13, D 5, 9).

 $\theta\eta\rho\dot{\eta}\tau\omega = \theta\eta\rho\dot{a}\dot{\epsilon}\tau\omega$ , the contraction of  $a+\epsilon=\eta$  being Doric (Boisacq, Dialectes Dovicus p. 64 foll): 'nachjagen (verfolgen)' For this explanation I am indebted to Prof. U. von Wilmowitz Cf. the term 'pursuer' in Scotch law. There is no room on the

stone for the 8npn two our which we would expect.

L. 6. We must probably write iepai rather than iepai, and identify these officials with the lepai of the Andania inscription (gf. Le Bas-Foucart, Explic. No. 326a, p. 168): they are sharply distinguished from the priestesses (lépeau), as the lepoi from the lepais.

From the use of the feminine τῶν ἀλλῶν ἀ ἐπιτυχῶσα we may conclude that only women were admitted to the sacred banquet: cf. Collitz-Bechtel 4495 l. 10, ἄρσης δὲ οὐδεῖς παρέσται. Freiherr Hiller von Gärtringen has suggested to me that the occasion may have been a Thesmophorienfest. Cf. Aristoph. Thesmophor. 1150, οὖ δὴ ἀνδράσιν οὐ θεμιτὰν εἰσορῶν ὄργια σεμνὰ θεαῖν, and ἀλίδ. 655 foll.

8. Ποθιῆι = προσιῆ: I do not know a parallel for this use of the active of προσίημι, though in the middle it often = 'allow,'

'approve.'

L. 10. B/δνιοι. The title occurs elsewhere only at Sparta to denote the five annual officers who acted as overseers of the youths. It is written βίδεοι οτ βίδνοι in Laconian inscriptions, βίδιαῖοι in Pausanias (iii. 11, 2; 12, 4), βείδιοι in Lacod. Ocon. ii. 290, Suidas, Eustath, and Phavorinus, and βειδιαῖοι in Fourmont's spurious inscriptions. The spelling here used, βίδυιοι, does not

 $<sup>^{20}</sup>$  It is also found in There (A.G. at i. 3, 327, 1–144). In papers various signs are used,

elsewhere occur, but is etymologically the correct one, the word being connected with ἐδυῖοι i.e. Ϝιδυῖοι, witnesses. The digamma is here, as often in Laconian inscriptions, represented by β; cf. Müllensiefen, De til. Lacon. dialecto p. 47 [177] foll.

L. 12. Ev. This is the first certain instance of έν = εἰς in Doric. A Dorcusium usu alienum (Van Herwerden, Lev. Dialect. s.v.). Εν ἐφόδιον was read, though somewhat doubtfully; by Foucart (Le Bas-Foucart 157α l. 50), but rejected by Mylonas (B. C. H. 1894, p. 143). Meister restored ἐ[ν] τον αἰῶνα (Collitz-Bechtel 4560 l. 4), but afterwards altered this to ἐ[ς] τον αἰῶνα (ib. Nachword, p. 146). The present instance, however, admits of no doubt.

11. In Petalidhi on a white marble herm found to the north of the village, now preserved in the courtyard of the house of Baσίλειος Γ. Μοκάκος. Breadth '30 m; thickness '225 m,; height (without head) 1-83 m. Published in minuscules only by W. Kolbe, Sitzb. d. Berl. Akad. 1905, p. 53.

A DEMETEIXIOEC
CATTAPATA AON
IPONIO WMHCMEC
CHNHEYNOIC
KY DECINHEAAI
CENYIONAPICTW
NOCMECCHNIOV
HAEPATEINHC
ACHTACCTAPTM
HAAXENEKTATE
PWNDAME DEEA
AANECCITENOYC
phallus

METAKYDOCAPE
COAIEKTEDI <
OCKOYPU NEK
TEKAIHPAKAE
OYC

TONHPAKAEIAIN APMONEIKON HITOAIC

"Αδε με τειχιδεσ σα παμ' άγλαδη Ιράν Ίθωμης 5 Μεσ σήνη ξυνοίς κύδεστι ήγλάι σεν υίον 'Αρίστωνος Μεσσηνίον ήδ' έρατεινής 10 'Αγήτας, Σπάρτην | ή λάχεν έ(κ) (π)ατέρων' φαμέ[ν] (δ)ε Έλ λάνεσσι γένους μέγα κύδος άρε σ(θ)αι

έκ τε Δι οσκούρων έκ τε και 'Ηρακλέους. 15

20 τον Πρακλείδην Αρμονεικον ή πόλις.

The letters are large (average height 025 m. in the epigram, '02 m. in the subscription and, though irregular, show signs of careful engraving. They belong most probably to the second century A.D.

This wall-girt Messene, hard by Ithome's glorious sanctuary, with public honours glorified me the son of Messenian Ariston and lovely Ageta, whose ancestral home was Sparta: and we tell the Greeks that we have won great

honour of race both from the Dioscuri and also from Heracles."

The name of the man commemorated, being unsuited to elegiac verse, was added in an iambic senarius; the same expedient is resorted to in Kaibel. Epigr. grace. 751, 886. The reference to Messene and the absence of any mention of Corone make it highly probable that the stone was originally set up at Messene. A Publius Aelius Harmonicus was honoured by the Messenians with a statue erected at Olympia (Collitz-Bechtel 4659), and the name is frequently found at Sparta, usually with the names Tiberius Claudius prefixed (Collitz-Bechtel 4481; Le Bas-Foucart 178a, 176; C.E.G. 1249 col iv, 1260, 1346; Sparta Cat. No. 432). A Claudia Ageta is found at Amyclae (Brit. Mus. CXLII.) and Memmia Ageta at Sparta (Collitz-Bechtel 4479). The claim to be descended from Heracles and the Dioscuri often finds expression in Laconian inscriptions, e.g., Le Bas-Foucart 174, 245; C.I.G. 1353, 1355; 'Eq. 'Apx. 1892 p. 24. In two cases descent is traced from the Dioscuri alone (Le Bas-Foucart 245h; B.C.H. xxi p. 209), in one from Poseidon (C.I.G. 1374).

12 Petalidhi (Corone), in the house of Dr. D. Marcopoulos. Upper part of a stele of hard white limestone. Height 5 m.; breadth 43 m.; thickness 1 m. The inscription begins 28 m. from the top of the stone.

> AFAGON ALMOOKVHZ **AAMAPXOE** ETILENHE NIKON KAEON EMITEAHS AYEIDAMOE HOADN APMODIOS

5

Αγαθων Ayaboxxñg Δάμαρχος Encyevns Nicon Kaine Emireding. Αυστοαμος

5 Hohor Αρμόδιος The letters are well and carefully formed : the hastas are thickened considerably at the ends, terminating in radimentary epices. The character of the writing and the absence of Roman names seem to point to the first half of the second century s.c. as the date of the inscription.

 Petalidhi (Corone), built into the wall of the house of Δ. Καντσοδημητρόπουλος Large limestone slab: height 63 m ; breadth 53 m ; thickness 1 m. The inscription has been published by Koumanoudes ('Aθηναιον iv. p. 104), Petrides (Παρνασσός v. p. 907), and Meister (Collitz-Bechtel 4683). I repeat it here because the only copy that has appeared in uncials, that of Petrides, is rightly characterised by Meister as sehr mangelhaft.

#### AFAGAITYXAI

ETI PAMMATEOS TONSYNEAPONNIKATOPOY TOYA DRAEIAAETOYEAEOF OHKOETOYKAIENATO ETTELMNAKAHOEL

> Αγαθαι τύχαι. Έπι γραμματέος των συνέδρων Νικα γρόρου του Δ[ε]οκλείδα έτους δε ογ[δ]οηκοστού και ένατου, êmei avakanbei s ----

The letters are careless and irregular: those of L 1 are somewhat larger than those or the succeeding lines. The inscription was never completed.

M. follows K. in reading Nexaropos in I. 1, but the name is suspicious and P. rightly gives Y as the last letter of the line. Whether the fifth letter of the name is really a T written by an error for F or a F which resembles T

owing to a damage of the stone, I cannot decide.

The inscription is dated in 'the eighty-ninth year.' It is uncertain whether the era is reckoned from the defeat of Andriscus (148 B.C.), from the destruction of Corinth (146 B.c.), or from the organization of the province of Achaia [145 B.C.]: see Foucart's note on Le Bas-Foucart 116s and Meister's on Collitz-Bechtel 4689 L 10. In any case this inscription belongs to about the year 57 B.C.

MARCUS NIEBUHR TOD.

# INSCRIPTIONS FROM THE CYZICENE DISTRICT, 1904.

L At Panderma; small base, broken, '08 m. across, letters '01.

2. Small fragment of cippus, diam. 11, letters '02.

 ΙΤΟΣΛΟΝΓΕΙ
 † Κάιν]τος Λονγεί[νος

 ΙΟΥΠΡΑΓΜΑΈΥ
 ]ίου πραγματευ 

 11 ΤΑ
 τ]ής....

Pediment (0.24 broad) with radiated bust of long-haired god;
 below (letters 015);

TYXF  $\Lambda_{\gamma a}\theta \tilde{\eta}$  T $\tilde{\nu}\chi \tilde{\eta}$ 

4 Altar with relief of bucranium, letters 015.

 Broken stele (0.15 broad) with relief of Zeus standing, eagle on ground r., letters 015.

ΤΤΑΛΟΥΑΜ Α]ττάλου

For the type of relief cf. J.H.S. xxiv. 22.

Block 0.35 x 0.23, used later for capital, letters irregular, about -03.

Eἰσήκοος may perhaps be used as an equivalent for the common ἐπήκοος: the illiterate spelling εἰσήκουος is paralleled by στουάν for στοάν in Ramsay, C.B. i (61).

Slab used later for base of two columns, letters distinct and well cut
 03-04.

- ΑΘΗΙΤΥΧΗ• 'Α]γαθῆι Τύχηι

PHΛΙΑΝΑ' 'Αὐ]ρηλία Ναι[δι

ΝΗΓΑι α]νή '

ΗΙΜΟΝ

ΙΤΩΝΤΩ ιτῶν τῷ

ΝΥΣΩ Διο]νῦσῳ '

Nos. 1-7 and a corner of a stelle with relief of a bull's head are said to have been brought from a village near Gonen.

'Ολβιος is an uncommon epithet of Zeus (cf. Latyschev i. 24, J.H.S. xi. 226 (Cilicia), C.I.G. 2017 = Ath. Math. vi. 264 (Gallipoli)), and may be compared with Πλούσιος, Paus iii. 19, 7. It appears not to be necessarily connected either with Olbia (cf. J.H.S., xxiii, 37) or with Olba in Cilicia.

8. Funeral stele with relief of parting 30 x 24, letters 01.

ΙΩΤΙΧΗΟΝΗΣΙ Ζωτίχη 'Ονησί[μου, ΧΑΙΡ χαῖρ[ε

I was shewn at Panderma a copy of a stone at Ermeni Keui, reading ΔΙΕΤΡΕΦΗΣ | ΙΡΓΙΟ

 Mahmun Keui, near Panderma: side of sarcophagus 1:70 × 60, letters '06.

YTOMNHMAD ATTINACMHNODIAOYOKATECKEY ACENEAYTWKAITHCYNBIWAYPHAIA AMIW

'Υπόμνημα 'Αττινά(s) Μηνοφίλου ὁ κατεσκεύασεν ἐαυτῷ και τῆ συνβίφ Αὐρηλία 'Αμ(μ)ίφ

 Rest-house near Debleki, on the chaussée, one hour from Panderma ; Funeral banquet stele, three persons, 75 x 50, letters 025.

> МІККНАПОЛЛОФА NOY XAIPE

Μίκκη Απολλοφάνου, γαίρε.

A sketch of this stone is published in Black and White, Feb. 13, 1897. p. 207.

Of the inscription copied by Munro at Aksakal (J.H.S. xvii, 274 (19)), I made out, above the couplet published, LHLAAHOIX XAIPE. The relief is of the horseman-type common in Thrace, with which the serpent and tree is here, as frequently, joined; it has been defaced intentionally,

 Aboulliond: fragment with mouldings, 0.29 x 0.19, letters 0.03. Φελακτή της. **DINOKTI** 

An uninscribed stell with relief of Apollo Citharcedus-the figure is 0.53 high and headless -is built into a house on the hill of H. Georgios, and deserves mention on account of its divergence from the 'Sauroctonos' type represented on coins as the cultus image of Apollonia.

The inscription of Aboulliond published J.H.S. xxiv. 26, 17 should read

KAITOYET for KAROYET.

12. Kermasti, house-wall of Soteris: broken banquet stele, letters about '02.

#### KATOMAPE XAIPE

We were told at Keymasti of a male statue found at Kayak Keni, and sent to the Imperial Museum, with the inscription 'Αρτέμιδος ('Αρτεμίσιος ') γραμματεύς τῶ δήμοι it is evidently from Miletopolis (Melde), where unofficial excavation is bringing to light a great deal of late Roman architectural detail and sculpture: coms of Miletopolis are extremely common in Kermasti, whence also comes a definitely Miletopolitan inscription (B.C.H. xxv. 327, (6)).

A copy of an inscription 'Οτεονεύς (i.e. 'Ετεωνεύς) Εὐαρέστω μυήμης xapır was also shewn us.

 At Susurin I was shewn a small stell (0.46 × 0.27) of rough work, representing

> Tree and altar. Worshipper leading sheep.

Apollo in long robe holding lyre L and patera r.

The inscription (letters 015) is much worn and I could only decipher

# ONN(1)ADOE

Similar stelae from the district are enumerated in J.H.S. xxii, 87.

 Mendoura (Mendokhora), near Balukiser: altar 6.82 × 0.35, letters 0.5.

NACONTYXI KHTHCYNBIO KAIKPICOO KAIONHCIMI TATEKNAN HMNHCXA Nάσων Τυχιεῆ τῆ συνβίω
καὶ Κρίσ(πω)
καὶ 'Ονησίμ[ω
τὰ τέκνα (!) μ[νήμ(ν)ης χάρεν

Balukiser, in the street: altar 0.61 x 0.55, letters 04.

ΑΟΗΝΑΙΣΤΡΟΦΩ ΙΔΙΑΠΗΜΑΤΗΚΑΙ ΑΜΜΑΕΤΟΥΣΣΚΓ Αθηναίς τροφφ ὶδία Πηματή καὶ Αμμά, ἔτους σκή

In cemetery north of the town, rough granite ditto 0.92×0.41,
 letters irregular, about .04.

TYXHEP
MOYANNI
OFAYKONI
ANOOPE\*AN
IMNHMHC
XAPIN

Τύχη 'Ερμοῦ 'Αυνίφ Γλυκωνιανφ θρέψαντ]ε ανήμης χάρεν

Villages in and about the Karadere valley .

Hidja: marble block 0-68 × 0.28, in mosque wall, letters 02.

MHTPOA®I

EXMIAET

EIKOSTOMEF

HTTASETOOOC

TAPOAEIT/

KAISYNEK

PEPOYORTO

A AAN

Μητρόδωρ[ος τέχνη † δέ π . . . εἰκοστόν με . . . ῆρπα(σ)ε τὸ φθο[νερον παροδείτα και σύ, νεκ[ρός περ ἐών ?

Assar Alan, at the mosque; altar 1:03 x 0:59, letters '03.

YTOMNHMAD ANEIKHTOYEYHME POYOKAESKEYASEN EAYTOKAIHYNAI KIZOTIOD 'Υπόμνημα
'Ανεικήτου (τοῦ) Εὐημέρου δ κατεσκεύασεν ἐαυτῷ καὶ τῆ γυναικὶ Ζωτίφ ib. in mosque wall high up: fragment of sarcophagus, letters '04, right edge complete.

AC. IIL

N. IKICIT..IIAP

INAKAITOICHAIDIOICAY

€...Υ...λειονψΔεΚΑ CI. CBAHOIINAIO€AHCEI

€7¢

... και τούς παιδίοις αύ-

τοῦ [] ..... 🕉 δὲ καί

.... σι[ο]ς βληθήναι θελήσει

.... (δην.) δφ.

A much worn stele with relief of sacrifice to Zeus is built into the same mosque.

20. Boghaz Keui : fragment of small stele, with relief of bust, letters 015.

PHNH MHTPOA'

NEO KAN

Μητρί 'Αυδει Τρηνή

Μητρόδωρος ά[νέθ[η]καν

χα]ρι[στήριον

The name of the goddess is a purely conjectural restoration based on J.H.S. xxii, 190, (1).

21. Yeni Keni (left bank of Tarsius, below Hodja Bunar): large oblong block with moulding 1:30 × 0:65, much broken, worn, and scratched, letters 03.

HIIC

OITPA

ΕΚΛΙΩΔΕΨ

AXAPHEAAIE

EINACEACEAINIT

TOOANEINAAE

AYEAAEAQOICOM

ΦO . NEINAAAAΠΡΙΝΗΑ

KA. IONEWNIPOTEPOI

' παροδείτ]α χάρης ....

εἶπας εὐσεβίης ἔ[νεκεν τὸ θανεῖν ἀλε[γεινὸν

ή βους αδελφοίς ...

φθ[ο]νείν, άλλὰ πρίν ήλ[ικίας κα[ί γ]ονέων πρότερο[ς ί

Both extremities of 1, 7, and the beginning of 1, 9, are doubtful.

The Hodja Bunar inscription J.H.S. xxiv. 28 (28) should probably read iππ[άρχεω τῆς Κυζί]κου rather than iππ[άρ]χου.

22. Alexa (on the left bank of the Karadere, below Suleimanly) small stele with pediment  $0.45 \times 0.25$ , and relief of horseman riding r. towards tree, letters 0.2

ΠΟΤΑΜΩΕΝΒΕΙΛΩ ΕΡΕΝΝΙΟΣΚΡΙΣΠΟΣ ΕΥΧΗΝ Ποταμώ Ένβείλω Ερέννιος Κρίσπος εύχήν This inscription, found close down by the bed of the river, is paralleled by C.LG. 3700 (seen by Pococke at Panderma), and identifies the river Εμπηλος of Anna Commena xiv. 5 definitely with the Kara-dere; similar dedications to an unnamed river are to be found in J.H.S. xix. 76, (31), (32), and B.C.H. xxv. 328, (7)–(15), inclusive: a neighbouring cult of Aesepus is mentioned by Aristides (i. 570, Dind.); "Εμβίλος occurs as a man's name in J.H.S. xxiv. 33, (40), and ΕΜΒΙΛΑ, from Έμβιλος, is perhaps the solution of Fabricius' ΕΜΡΙΧΑ from the neighbouring village of Ilidja (Sitzb. Bart. Akad. 1894, 919).

23. 15. Banquet stele 0.73 × 0.41, letters 012.

ΣΟΤΥΣ

Karps ?

M. NEL . TEMIKKH

Merestos 1 Miran.

24. Gonen: M. Spiridion Bonsignor's copy of the inscription mentioned in J.H.S. xxiv, 29, runs as follows:

ΥΠΟΜΝΗΜΑ
ΙΚΗΦΟΡΟΥΤΟΥΜΟΕΧΙΟΥΟ
ΕΒΝΑΥΤωΖωΝ ΑΠΙΓΥΝΑΙΚΙ
ΓΛΥΚϢΝΙΔΙΙΑΝΔΒΤΙΕ.. Κ
λλαΠιδωρΠΡΕλλΗΓΙΝδΟΝ
ΕΕΙΗΠΟΛΕΙ. ΒΦΚΑΙΥΙΕΥΟΙ
ΤΩΤΗΓΤΥΝΒωΡΥΧΙΑΓΕΥΟ
ΟΚΤΑΜΟΥΙΕΥΝ. ΕΒΑ. ΝΤ
ΜΟΙΡΑΤΟΔΙΟΝΆΝΗΑ. ΟΓ
ΟΥλΗΟΙΠΑΡΑΛΟΥΕΤΑΕΑΛΛΟΦΤ
ΩΝ.. ΧΟΝΈΡΑΝΝΕΚΗΦΟΡΟΕΟ
ΚΛΆλΟΕΑΚΛΙΕΤΙΕΠΕΙΩΟΟΓ
ΩΝΆΡΙΤΧΕΡΏΧ.. ΠΑΠ

Υπόμνημα

Ν ικηφόρου τοῦ Μοσχίου ὁ [κατεσκεὐα] σεν έαυτῷ ζῶν καὶ τῆ γυναικὶ ... Γλυκωνίδι, ἐὰν δέ τις νεκρὰ ἄλλα ἐπιθήση ἐ ἡ συλήση ἐ ..... δώ] σει τῆ πόλει (δην.) βφ, καὶ ὑπεύθυ[νος ἔσται] τῷ τῆς τυμβωρυχίας ἐγκληματι

The stone is a stele with pediment and relief of two busts above the inscription : its dimensions are  $1.28 \times 0.05 \times 0.15$ .

25, ib.: fragment in wall of Hotel Bonsignor, letters 035.

IBOYAHΣK TH™ IPO YIIKHNΩN ψηφίσματ]ι βουλής κ[α] δήμου] τής [λαμ]προ[τάτης Κ]υζικηνών [πόλεως 26. ib.: slab in fountain near the old mosque,  $1.45 \times 0.72$ , letters :02--015,

OYTOTATOYOEKIHCAMHNAC... YKOINHAIOY

Υπ]όμνημα ... ου Ποπλίου δ έκ(τ)ησάμην Δο[υκίο]υ Κο(ρ)νηλίου

27. Bigha-shehr, outside Ulu Jami; altar with moulding,  $0.72 \times 0.40$ , letters 0.4.

 ΙΕΒΙΣΟΕΟΦΙΛΟ
 Σέβις Θεοφίλο[υ

 ΚΑΈΣΚΕ¥ΑΣΕΝς
 κατεσκεύασεν τό[υ

 ΒΜΜΟΝΙΕΒΙΑΘΕΟ
 βωμὸν Σεβία Θεο 

 ΣΙΛΛΘΥΓΑΤΡΙΙΔΙΑ
 φίλα θυγατρὶ ίδία

 ΜΕΧΑΡΙΝΕΙΔΕΤι
 μυ]ήμης χάριν εἰ δὲ τί[ς

 ΙΑΚΕΙΝΓΗΔυ
 με]τακεινήση, δώ 

 ΕΙΨΤΑΜΕΙΨΧΒ
 σ]ει τῷ ταμεἰφ (δην.) β,

The name Sebes occurs in Nonnus xxviii. 29.

The following inscriptions are gleaned from the MS, journal of Dr. Covel in the British Museum.

(a) Cyzions (Add MS, 22914, p. 8).

ΥΠΟΜΝΗΜΑ Υπόμνημα
ΛΥΧΝΙΔΟΣΗΛΕΥ Λυχυίδος ήλευΘΗΡΟΜΕΝΗΣΟΚΑΤ θ(ε)ρ(ω)μένης ὁ κατΤΕΣΚΕΥΑΣΕΝΑΥ <τ>εσκεὐασεν αὐΤΗΟ ΙΟΥ τῆ "Ο[κτάβιος ἔ] "ΙούΛΙΟΣ ΨΙΟΣ λιος [ἀνε]ψιὸς

Mihallitch (Add. MS, 22912, p. 263).

(δ) ΑΥΡ ≫ ΑΡΙΣΤΙΔΟΥ Αὐρ. 'Αριστίδου
ΟΚΑΤΕΣΚΕΥΑΣΕΝ ὅ κατεσκεὐασευ [τῆ
ΦΙΛΕΣΤΑΤΗΓΥΝΑ φιλεστάτη γυνα[εκ]
ΣΥΝΦΕΡΟΥΣΗΚ ΣυνΦερούση κ[αὶ

(ε) ΝΗΜΑΘ ὑπόμ]νημα
ΛΕΝΤΙΑΝΟΥ - ! Οὐα[λεντιανοῦ
ΟΥΚΒΕ:ΒΙΑΣΤΕΡ ... ου κὰ Βειβίας ΤερΝΗΣΕΚΧΑΡΙΤΟΣ εντια]νῆς, ἐκ χάριτος
ΛΥΣΑΝΙΟΥΘ ! ποιήσαιτος Π]αυσανίου

....

(d) Brusa, in the bath (Add. MS. 22912, p. 250).

# ΥΠΟΜΝΗΜΑ ΔΕΥΝΕΙΚΟΥΚΑΙΤΗ CEYNOCAY ΤΟ ΥΚΕΤ WN ΠΑΙΔΙ WNAY ΤΩΝΤΟΙ CΔΕΛΟΙΠΟΙ C

TOAM

KEDICKWY ... WTOY

Τπόμεημα

Δ. Εὐνείκου καὶ τῆς (συνεύνου) αὐτοῦ κὰ τῶν παιδίων αὐτῶν τοῖς δὰ λοιποῖς [ ἀπαγορεύων εἰ δὰ τις ] τολμ[ήσει, δώσει τῷ ἰερῷ ταμείῳ δην. βφ, ί] κὰ φίσκο......

The designation of the monument as ψπόμνημα betrays its Cyzicene origin: Cyriac (B.C.H. xiv. 540) notices that stones were brought from Cyzicus to Brusa for building purposes. Carelessness of lapidary or copyist is to blame for the confusion in L.I. The insert is published in a mangled form by Lucas (1719, vol. i. p. 300, No. 13).

F. W. HASLUCK.

[The following inscription (from Add. MS. 22912, p. 25), though not from the district of Cyzicus, is accounted of sufficient interest for insertion here as locating a small Byzantine site.]

Tuzla : church of the two Theodores.

AYP. HPAKAICFAIOYOIKWN
ENEMFIOPIWKAAWAFPWKE
HTOYTOYFYNHAYPANTW
NINAEFIOHCOMENEAYTOIC
ZWNTEC KECPONOYNTEC
CTHAAHNAANHAHNEAYTWN
ZWNTWNKA....TWNTWN
KAHPONO.....YFIOAAOIC
ETECINAYTW....YCIAZIMAE
TICETEPOC.....EFIBOYAEY
CAITAYTHTHTIMHAOYNAI
TWTAAEIWAPFYPOYAITPACI
KAITOYTOEFPAYAAIATWNTINWN
KAKOYPFIACITICAANTOAAHCI
ACTEAOHAYTONOOEOC

XEPETENA POAITE Αύρ. Ἡρακλις Γαίου, οἰκῶν ἐν ἐμπορίφ Καλῷ Ἁγρῷ, κὲ ἡ τοῦτου γυνη Αύρ. Ἁντωνίνα ἐποήσομεν ἐαυτοῖς ζῶντες κὲ φρονοῦντες στήλλην μνήμην ἐαυτῶν ζῶντων, κα[τεχόν]των τῶν κληρονο[μων αὐτο]ῦ πολλοῖς ἔτεσιν αὐτῷ [ἐξο]υσία(ν εί) δὲ τις ἔτερος [τολμήσι] ἐπιβουλεῦσαι, ταὐτη(ν) τῆ(ν) τιμή(ν) δοῦναι, τῷ ταμείφ ἀργυροῦ λίτρας ἐν καὶ τοῦτο ἔγραψα διὰ τῶν τινῶν κακουργίας: (ε)ῖ τις δ' ὧν τολμήσι, μετελθῷ αὐτὸν ὁ θεὸς.

χέρετε παμοδίτε.

## 64 INSCRIPTIONS FROM THE CYZICENE DISTRICT, 1904.

The ἐμπόριον Καλὸς 'Αγρὸς is mentioned in Niceph. Patr. 61, Theophan. 609, Actt. SS. June 28, p. 349; cf. Ramsay, H.G. pp. 184–5.

The spelling and style are characteristically illiterate throughout; the double appeal to earthly and heavenly powers against possible desecrators of the tomb is couched in rather unusual terms: cf J.H.S. xxiii. 84 (34).

For the tine in pounds of silver we may compare B.C.H. xii. 199, 11 (Ghemlek) and note; pounds of gold are mentioned in similar inscriptions of Philippopolis (Henzey 49) and Cyzieus (Syll. Const. vi. 173, 10); cf. also C.I.G. 3640 (Constantinople).

F. W. H.

Note.—While the above was in the press, several of the inscriptions mentioned have been edited by Dr. Wiegand in his valuable paper on Mysia (Ath. Mitth. 1904, 254 ff.).

### VASES ADDED TO THE ASHMOLEAN MUSEUM,

#### PART II

# [PLATES I.-IV.]

I continue the catalogue of the vases recently acquired by the Ashmolean Museum, the first part of which catalogue appeared in this Journal, vol. xxiv. pp. 293-316. As before, the numbers given to the vases are those which they bear in the slip catalogue of the Museum.

527, R.-f. Krater: the handles joining the body to the mouth, H. 141 in.

Decoration on neck, leaves (black) with stalks interlaced.

Obverse. Hermes to r. bearded, wearing chlamys and hat (behind neck), with drawn sword rushing on Argos, also bearded, naked, whose arms and



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legs are covered with eyes, and who kneels to r. Wreaths of both figures in red.

H.S.-VOL XXV.

Reverse. Youth, clad in himation, leaning on staff.

For the subject, compare Roscher, vol. ii. pp. 277-9; Ann. d. I. 1865, 150; Mon. d. I. ii. 59. A full list of ninety vases in Jahrb. 1903, p. 37. With our vase, cf. Pl. II. (bid.)

528, Krater from Capua. Subject, the seizure of Oreithyia by Boreas. Published in J.H.S. 1898, Pl. VI. p. 136.

529. Bell Krater. Late style; drawing poor. H. 16 in.

Decoration, laurel wreath round mouth: under handles, elaborate palmette.

Obverse. Two groups of warriors. On the left a youth seated on an altar or cippus, a sword slung round his body; his hand is held by a bearded



520 ; ORVERSE

man; behind him, a youth holding spear, clad in petasus chlamys and boots. On the right a dignified male figure clad in himation, wearing fillet, leaning on staff, addresses a seated youth who wears a sword. Hung up in back-

ground, spear, shield, and helmer; another shield below. Both the shields adorned with wreaths.

Reverse. Two youths, and one bearded man and a youth, in conversation.

I have been unable to determine the subject of the obverse. The three youths seem to be returned from some expedition, the seated figure on the left appears to be ill or wounded.\(^1\) There is a superficial likeness between



529 : REVENSE

this scene and some of those (e.g. Amer. Journ. Archaeol. 1899, p. 578), which are supposed to depict the healing of Telephus; but the likeness is not close.

530. Small bydria of the middle of the fifth century. H. 11 in. (Pl. L.)
Above design, line of palmettes; below, macanders.

The blinding of Thamyris. In the midst of a field sits Thamyris clad in chiton and Thracian boots; his eyes are closed, and the lyre falls from his outstretched hand. To the left is his mother Argiope, who tears her hair; to the right a Muse holding a lyre. The restorations are indicated by Mr. Anderson in dotted lines.

This vase is described in the Auxiger of the Jahrbuch for 1902, p. 86, by Herr Zahn, who however describes Argiope as a Thracian woman. The marks upon her wrist doubtless, as Zahn suggests, indicate tattooing, which

The appearance of a wound in the leg in the sugrating results only from injury to the surface of the vasc.

would indeed be more suitable in a Thracian woman than in the nymph Argione. Such tattooing is found in the case of the Thracian women on Orpheus vases." Nevertheless the grief seems better suited to the mother of the bard. A vase from Vulci gives a representation of Thamyris contending with the Muses; but the present vase is I think unique in giving us the disastrous result of the encounter. In the Hades of Polygnotus at Delphi, however, there was a kindred representation: 'Thamyris is seated near Pelias, his eyes destroyed, his whole appearance very dejected; there is much hair on his head, and an ample beard; a lyre is cast down by his feet with shattered frame and broken strings.' Some points here, the blindness, the dejection, the cast-down lyre, the abundant hair, correspond; the difference as regards the beard is probably one of date, our vase being somewhat later than the time of Polygnotus; the broken strings are a detail which the vasepainter would be likely to omit. I do not, however, suppose that the vasepainter has been influenced by the group of Polygnotus; probably he followed an artistic tradition, the memorials of which have perished.

Small hydria. H. 10 in.
 Above, architectural pattern; below, macanders.



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A lady scatted on a chair to r., holding fillet (white). Before and behind

her two attendants; the one behind hears a mirror, a spindle (white), and a basket; the one before a wreath (white) and a dish.

Given by Mr. Fortnum.

A pleasing group representing a domestic interior, but conventional.

533 Red-figured oenochoe: month trefoil. H. 7 in.

Above design, line of palmettes; below, architectural pattern.

Nike, NIKH, clad in long chiton flying r.; she holds in her hands a fillet another is in her hair: before her a great tripod on a basis.

From Nola. Elite Geramogr. i. Pl. XCI. Cabinet Pourtales, Pl. VI., Pourtales Catalogue, No. 194. Oldfield Collection.

This exquisite little vase is probably a record of a choragic victory at Athens. It is in the most perfect preservation, and of good style.

534. Oenochoe of the latter part of the fifth century. H. 8½ in. (Pl. I.) Palmettes above, maganders below.

A Satyr advancing to r. excitedly towards a Nymph, naked, who reclines asleep on a rock over which ivy twines, and which is covered by a panther's skin and drapery; she is crowned with ivy and holds thyraus. Above is the inscription ΤΡΑΓΩΙΔΙΑ.

This is a marvellous piece of drawing, copied by Mr. Anderson with his usual skill and fidelity. The head of the Satyr with loose hair and beard, is remarkable; also the anatomy of both figures. Unfortunately the face of

the nymph is injured.

The interest of the vase, however, resides wholly in the execution; we need not seek any recondite explanation of the figures, which stand for an ordinary satyr and nymph. The name Tragoedia, added to the latter, is merely functiful: we are accustomed in vases of this period, especially those of the Meidias class, to find fauciful names added to the male, and especially to the female, figures. No doubt there is an appropriateness in the name as applied to a nymph of the troop of Dionysus; and ivy-wreath and thyrsus go very well with the name. But it would be a mistake to suppose that the vase-painter really intended a representation of the muse of Tragedy.

It is natural to compare the Athenian relief found in the Peirneus, on which appears a young male figure reclining, with a woman clad in a nebris seated at his feet, and three actors standing by. On the ground of the inscriptions, which however are certainly later than the relief, it has been suggested that the two chief figures are Dionysus and Paideia. But the inscriptions may be neglected; and if the relief is, as would appear, of votive character, we are almost obliged to see in the divine beings to whom the actors record their gratitude Dionysus and Tragoedia. In this case then we seem

to find a purposeful impersonation of the spirit of tragedy in a nymph of the Dionysiac circle. But even so, the motive on our vase is so well known and so inappropriate to a personage like Tragoedia, that we must rather regard the nymph as an ordinary Maenad.



535. Lekythos: fine early style. Red palmettes. H. 251 in. (Pl. II.)

Apollo (APL) laurente, clad in himation; holds patera and lyre; meets

Artemis (APTE) clad in chiton and himation, who holds conochoe and bow;
a quiver at her shoulder, a doe walking beside her.

From Ciela.

Fine and dignified types of the two deities. The figure and especially the head of Apollo bear so close a likeness to the Apollo on the obverse of No. 524 (J.H.S. 1904, p. 312) that the two vases must come from the same workshop, and were probably painted by the same hand.

535. Lekythos: fine style. Black palmettes H. 121 in. (Pl. II.)

Sacrificial scene. A draped woman, a band in her hair, carrying a patera, and a youth with drapery girt round his waist, carrying meat on a spit and tripod inverted.

Unmeaning letters in the field.

From Gela.

537. Small Lekythos without stand: latter part of the fifth century. H. 71 in.

Decoration of elaborate palmettes.

Observe. A lady fully draped seated on a chair, her hair loose, in her l. hand a mirror; behind, alabastron suspended. Above E.

Reverse, Maid-servant advancing with fillet and box. Above OEANO. (The legends are lost in the engravings.) This vase is very delicate in form and beautiful in drawing. The name Theano is doubtless fanciful; it was a common name at Athens.

538. Small round lekythos: late r.-f. style. H. 4 in.

Two hornless deer lying down, one on each side of a tree.

Found in a grave at Kertch, together with vases Nos. 541 and 542 and the armour and ornaments published by Mr. Ernest Gardner in J.H.S. v. 62, Pls. XLVI. and XLVII. The vases were no doubt imported from Athens.

Found and presented to the University of Oxford by Dr. Siemens.

539. R.-f. guttus: handle fixed to spout. Fine, not severe, style. Diam. 31 in.

Obserse. Satyr running r., holds in r. club, on L arm skin of beast.

Reverse. Fox caught in spring trap, which is builted with ox-foot.

Pourtales Catalogue, p. 100, No. 181, Pl. XXIX. Schreiber's Atlas, Pl. 80, 3. Oldfield Collection.

The representation of the reverse is decidedly interesting, shewing that the Greeks used iron spring traps, probably armed with teeth. The two sides by flat on the ground with the bait between them; when an animal touched the spring they closed on it. Such a trap, used in recent times, is preserved in the Ashmolean Museum. 540. R.-f. guttus; flue, not severe. Diam. 37 iu.



Obverse. Winged male figure kneeling r. playing with astragali.

Reverse. Hornless dappled deer I. Oldfield Collection.

541. R.-f. guttus; fine, not severe. Diam. 31 in.



Observe. Satyr squatting, tilting amphora from his shoulder, to fill drinking-hore.

Reverse. Satyr crawling on the ground, holding out drinking-horn,

542. R.-f. guttus: fine, not severe. Diam. 31 in.

Obverse. Dog running.

Reverse. Hare fleeing.



Nos. 541 and 542 were found in a tomb at Kertch by Dr. Siemens, and presented by him to the University of Oxford. See No. 538.



Attic polychrome telegthi, Nos. 543-9.

543. Design, woman carrying the corpse of a child in a coffin. Published in J.H.S. xv. p. 328.

544. On shoulder, black palmettes. H. 114 in.

Sepulchral stele surmounted by palmette. On one side, a male figure mourning, wrapped in himation (yellow); a boy clad in red mounts the steps of the stele; above, a flying ghost.

Cerameicus, Athens, 1893.



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# 545, H. 14 in. (Pl. III.)

On shoulder, black paimettes. Sepulchral stelle ruised on steps; on one side, a woman in brown garment, bringing a toilet-vase and an alabastron; on the other side, a young man in red himation.

From Laurium, 1896.



546. Designs in red and black.
On shoulder, palmettes. H. 10 in.
Sepulchral stele; on one side, a youth wearing pileus and chlamys



holding spears; on the other a woman bringing offerings; above a small ghost, and a bag suspended.

De Janus Catalogue, No. 133. Oldfield Collection.

547. On shoulder, black mys. H. 81 in.

Charon in his boat amid reeds (garment red); he holds in his right hand a pole, and stretches out his left towards a small ghost, who flies to him with arms extended.

Painted in monochrome. Athens, 1899.

548. On shoulder, red palmettes. H. 142 in.



548

Woman advancing to right, clad in red chiton and black over-dress; she holds out a box. In the field a fragmentary inscription.

Vase shattered and in parts repainted.

549. On shoulder, red palmettes. H. 10 in. (Pl. III.)

Woman seated on chair (brown). Her garment seems originally to have been red, but the colour is now gone. She holds in both hands a wreath untied. Behind her a pillar (a house); in front a duck, above an oenochoe and ⋉ΑΛΟ€ ΛΙΧΑ€. See J.H.S. xvi. p. 167: where Mr. Bosanquet assigns to the vase a date of about B.C. 465.

550. Late r.-f. pelike (so-called). H. 14½ in. Yellow and white paint. Elaborate paimette patterns on neck and under handles. Below designs, macanders.

Obcerse. Aphrodite r. at bath which stands on pillar; she pours oil on



SSQ: OBVERSE

her I hand from alabastron; behind, her clothes on a table. Facing her, female figure holding a metal crown, her over-dress curiously arranged like a

wing, and spotted. An attendant seated to r. by water-pot, another in field l.

Above, Eros seated, holding wreath and branch, also a ball.

Reverse. Lady draped, seated 1, on chest; she extends her r. band towards a youth who stands before her, wearing chlamys, holding wreath and staff. Behind the lady, female attendant 1; above her, Eros holding a tray. In foreground, ball and pebbles. From the Basilicata. Benguot Collection, No. 8; Pourtalès Catalogue, No. 250. Oldfield Collection.

This vase is a good example of the painting of the Hellenistic age. The scene on the obverse is on the border between mythology and genre. Approdite is identified by the crown which her companion holds. Such a crown is worn by the beautiful scated Approdite in the painting of the Transtiberine Villa which is a copy of a painting of the fourth century;



550 : REVELLE

also by the standing Aphrodite of the Casa dei Diescuri at Pompeii.

Though descended from the early polos of the queen goddesses, it is in form enriously like a modern royal crown. The garment of the figure who faces Aphrodite is apparently arranged so as to resemble the wing of a butterfly; and one is strongly tempted to see in this figure, who is evidently no mere attendant, Psyche, who at this period was beginning to come into fashion. In that case we should have a new and interesting grouping of the three, Aphrodite, Eros, and Psyche.

Yet in fact this bath of Aphrodite represents a further advance in the course started by Praxiteles with his Chidian Aphrodite, and is a scene of genre. Another such scene, but this time on a purely human level, appears on the reverse of the vase, which represents the greeting of a youth

<sup>\*</sup> Mon. d. I xii. 21. Compare the remarks \* Helbig, Wandpradde, No. 295, Max of Man in Annall, 1885, p. 311. Borb, viii, 34.

and a girl. It is highly probable that such vases as this were made for presents either to the women of the family, or more probably to betaerae. The same is true of the following two vases.

551. Pyxis adorned with white and gold : early fourth century. Diameter, 8 inches; height 3½ inches. (Pl. IV.)

On the cover seven female figures, ladies and maid-servants, holding wreaths and jewels; two figures of Eros in white and gold conversing with them; the place is a grove of shrubs. The knob of the cover was in metal; it has disappeared.



551; COVER

Round the vase, thirteen similar women, and two figures of Eros;

flowers (gilt) rise from the ground,

It should be observed that on the plate the subject, which is produced by the very useful method discovered by Mr. A. H. Smith, is divided in two for convenience; and thus a group of two female figures appears twice over.

552. Late r.-f. kylix. Diam. 81 in.

Exterior; under each handle three palmettes.

Obverse. Draped woman seated I, on chair, her knees grasped by a naked Eros; on either side a standing female attendant.

Reverse. Similar group: the attendants extend their r. hands: ornaments in white.

Interior. In a circle of macander pattern: draped woman seated r. on chair; Eros knecks on one knee at her feet, and holds her dress; behind Eros, column, and oval object hanging; ornaments in white.

Stackelberg, Graber der Hellenen, Pl. XXXI. Pourtalés Cat. No. 153.

Oldfield Collection.

## Vase of Phoenician porcelain.

I take this opportunity to publish a remarkable vase of greenish porcelain, which came to the Ashmolean Museum as part of the Chambers Hall Collection many years ago. (Fig. 1.)

Vase without handles: H. 7 in.

Round month, rope-pattern.

On neck-

- (I) Festoons of small leaves, suspended by tie at intervals.
- (2) Line of waves, inverted.
- (3) Horned winged lions walking I alternating with chess-board squares.
  - (4) Rope-pattern.

On body-

- IUIUI, etc. (architectural pattern).
- (2) Rope-pattern,
- (3) Rosettes of many petals.
- (4) Double rope-pattern.
- (5) Horned winged lions walking I alternating with squares of geometric putterns, triglyph-like.
  - (6) Rope-pattern.
- (7) Lotus plants with flowers and buds, growing on mounds; between them, ducks flying 1.; one flying r.
  - (8) Wave-pattern.
  - (9) Pattern resembling scales.

Fabric of fine thin clay, beautifully made, and covered with a greenish enamel, which is no longer smooth. Some of the lines of decoration are in relief, some (the upper two in particular) impressed into the surface. This case has long been a source of peoplexity to Mr. Evans and myself. The provenience was fixed, since Mr. Hail's vases came from Italy, but the place

of its manufacture and the date were not easy to determine. Some indication alike of date and source was found when comperison was made of two fragments found at Naukratis, and presented to the British Museum by

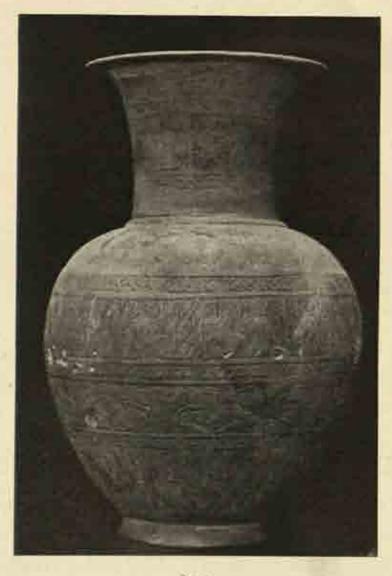


Fig. t.

the Egypt Exploration Fund. By the kindness of the keeper of Greek and Roman Antiquities, Mr. Cecil Smith, I am allowed to figure these fragments, drawn by Mr. Anderson:—

(1) Fragment on which is a line of winged hons separated by palmettes:

above, festoon of leaves impressed, and wave-pattern; below, rope-pattern, (Fig. 2.)

(1) Fragment on which is an ivy-wrenth impressed. (Fig. 3.)

The fabric and shape of these fragments correspond exactly with our vase. Besides them, there came from Naukratis to the British Museum fragments of coarser glazed ware, in particular the bottom of a vase adorned with a line of ducks and crosses, and a line of lotus. As to the date of the last mentioned fragment I should not like to pronounce. But I am of opinion that the Ashmolean vase, and the two corresponding fragments in the British Museum, belong to the early age of Naukratis. Ware with green-blue glaze of the same general type occurred in the Polledrara find, in the excavations at Cameirus, at Samos and elsewhere. Nine of the Cameirus vases are figured by M. de Longpérier in his Museu Napoléon III.



Pl. XLIX. (XXIX.). They are lekythi and alabastra of various types; some adorned with lines of animals (lion, bull, antelope), some with impressed decoration (lotus). M. de Longpérier observes that two such alabastra were found at Athens, one of which is now at Leyden and one at Amiens. No. 6 of Longpérier's plate bears two cartouches, in each of which is "le prénom de Psammitik II qui devint le nom de son successeur Ouaphres (Apries, xxvit dynastie)." The same cartouche occurs en an enamelled vase in the shape of a helmeted head from Corinth. In regard to these vases the source is a matter of dispute. That they are copied from Egyptian models is quite clear. But it is not decided whether the copying was done by Greeks at

<sup>\*</sup> This fragment is A. 1240 in the (onpublished) Catalogue of Force in the British Museum (vol. 1.).

<sup>\*</sup> A. 1241 B. M. Cal.

<sup>\*</sup> Of these three are vepeated in Percet and

Chiping, Art in Phoenicia and Oppras li, Pl. V.

10 Hochlan, Aus Ionischen Nekropolen, p.

101.

ii Boehlun, Le.

Naukratis, or by Phoenicians at Tyre and Sidon. The Naukratis theory has perhaps the most numerous supporters; but I incline to the view of Bochlau, that the whole class of vases is Phoenician, and that they came to Gresco as vehicles of the fine oils and performes of Arabia.

When I say that these vases are of the same general type as the Ashmolean vess I, I do not overlook the marked differences between the two kinds of ware. The Ashmolean vase has nothing to do with perfumes. Its delicate moulding and careful ornamentation are very different from the careless work of the ordinary Phoenician alabastra. In these respects the nearest parallels to our vase are the round Egyptian alabastra of the seventh and sixth centuries, many examples of which have been found at Polledrara at Cameirus is and elsewhere. A notable feature in the decoration of our vase is that it is produced by two quite different processes. Some of the lines of decoration seem to be produced by working away the background and sparing the figures; others by working on the figures and leaving the background untouched.

The devices on the vase run in bands which are closely parallel to the decoration of the bronze bowls brought by Layard from Nimroud, and now generally supposed to be Phoenician. Besides this arrangement in bands, there are common to the two classes of ware other features, such as great neatness of fabric, a combination of Egyptian and Assyrian elements, a monotonous repetition of the same decorative forms. Nestness of work combined with monotony and poverty of design mark Phoenician work in the sixth century; Greek work at that time is at once less masterly in execution, and far more original and promising in design.

Our vase, however, shows some distinctive elements, which may help us to fix its nationality. The line of lotus-plants and ducks is Egyptian beyond mistake. The horned (sometimes) and winged lion, or lion-headed griffin (Fig. 4), comes from another source. His history, which has been sketched by Prof. Furtwangler in Roseher's Lexikon, is very instructive. His earlier form, probably originating at Babylon, is that of a monster with lion's head, but eagle's wings, claws, and tail. This type meets us in earlier Persian art. But in somewhat later representations, the hind-legs and tail ceased to be those of an eagle and became those of a lion, while the head often retained the goat's horns which had sometimes appeared on the earlier type. At what time this transformation took place it is difficult to ascertain with precision. Furtwangler thinks it was about the middle of the fifth century. We find the later form on a Persian cylinder in and it is frequent on the coins of

<sup>12</sup> See Mirali, Mon. Incol. vii. 4, 5.

<sup>&</sup>lt;sup>38</sup> One of these vases found at Cameirus has on the edge an Egyptian hieroglyphic metription. A figure of a dolphin in enamel from the same site bears, however, the Greek name of Pythes, indicating that Greeks as well as Pimentrians sopied Egyptian enamels.

<sup>14</sup> Perrot et Chipies II. Figs. 209, 200, 215,

eta.

Well i. p. 1775. It would be almost as correct to eat the monster on our vase a Chinasers, as it has a lim's head, a goet's horne, and a long reised tail.

H. Lajani, Mithro, Pl. LIV. A. 18 Richter, Kypres, Pl. LXXVII. 5.

Panticapaeum (fourth century); while on a chalcedony from Kertch, in the Ashmolean Museum, and a coin of Lycia, both of the early fifth century, the monster's hind legs are still aquiline. In archaistic reliefs, such as that on a circular base of the British Museum, so or the throne of the priest of Dionysus in the Theatre at Athens, lion-griffins are sometimes represented fighting with persons in Persian dress, or in other oriental connexion.

Until an example is produced in Greek art of the archaic period, in which the lion-griffin is represented with four leonine legs and a leonine tail, it must be very risky to suppose that our vase is of early Greek fabric, or that it originated at Naukratis. Rather, as I have already observed it is decidedly like the Phoenician bronze bowls, which combine, as does our vessel, Egyptian and Babylonic elements. The line of festoons also does not seem a possible decoration in Greek archaic art. I am therefore disposed to think that the Ashmolean vase is a Phoenician work of the later sixth or

earlier fifth century, imported into Italy. That such vases should have been imported into Naukratis also is by no means surprising.



Fig. 4. (DETAIL OF ASHMOTEAN VASE.)

We are bound, however, to take into account a vase of similar porcelain formerly in the Sabouroff Collection, and published in the Sabouroff Catalogue, Pl. LXX. This vase is in the form of a Greek kantharos, and a close imitation of a metal original; its decoration consists of a line of garlands, one of waves, and one of an architectural pattern, all three of which appear on the Ashmolean vase. It may, however, be noted that the ties of the garlands are much more developed in the Sabouroff vase. This latter was found at Tanagra in the same tomb with a porcelain figure of Eros riding on a duck, which is now in the British Museum. Prof. Furtwangler 19 is

<sup>&</sup>quot;Gardner, Types of Greek Coins iv. 41: v. Pi. L J.H.S. Atlas, Pl. XI.VII. 8.
"Text to Substreef Collection, Pl. LXX, "Chil. Southface: III. No. 2512, cf. E.C.H. p. 3

disposed to consider both these works as products of Alexandria in the Hellenistic age. And this opinion seems a reasonable one.

I do not consider it impossible, however, that the Ashmolean vase may date from the sixth or fifth century a.c. and be of Phoenician work, while the Sabouroff vase may be of a time two hundred years later, and of Greek work. The forms of the vases are very different; and though both shew an imitation of Egyptian work, they may be imitations by different races. We cannot assign a period to simple decorative designs so easily as we can to works of a more characteristic kind; and it is notable that the lines of decoration on the Ashmolean vase which are most distinctive, and give us the best clue to date, the ducks and the winged lions, do not appear on the Sabouroff example.

My view would therefore be that vases of this kind are usually Phoenician, and range over a considerable period of time. The Greek attempts at this kind of ware, such as the dolphin of Pythes and the Sabonroff kantharos, are exceptional.

I ought, however, to add that the editors of the British Museum Catalogus of Vases, Mr. Cecil Smith and Mr. Walters, are disposed to assign a later date, not earlier than the age of Alexander, to the Ashmolean Vase, and the British Museum fragments. We must wait for further evidence before we can decide for one of these views or the other.

P. GARDNER.

# HELLENISTIC ROYAL PORTRAITS.

## [PLATES VIII -X.]

This paper does not pretend to be the result of original research, but to be rather a compilation of the various identifications of bronze or marble portrait heads 1 as kings of the great dynasties of the Hellenistic period, that different archaeologists have proposed from time to time. In the course of my study of the evolution of later Greek art, I proceeded from studying the series of coins of the Hellenistic dynasties to examine the portraits identified by means of the coins. I boped by that method to obtain surer ground for the succession of styles in the period. But there is so much uncertainty and often complete contradiction as regards the identification of the portraits, that so far a study of the portraits has yielded little. Many of the heads identified as kings are not kings at all. In fact there exists too great a tendency to believe that every fine individual portrait must be that of a king or some other great man. Private portraits must have been even more plentiful than royal portraits, and as works of art would stand an equal chance of preservation. It is however very tempting to seize on a slight likeness and identify a nameless portrait as a king. I have attempted to be moderate; the only new identification proposed is that of a head in the Museo delle Terme, hitherto known as a Hellenistic prince, as Antiochus VI. In criticising the identifications proposed by others the profile of the head has been compared as closely as possible with the coin portrait. And according to the degree of likeness or unlikeness between the two, the identification has been accepted or rejected. Though this method usually leads to a sceptical conclusion, I am fully aware of the difficulty and danger of attempting to identify a life-size portrait in the round with a miniature profile in relief on a coin. I willingly acknowledge my indebtedness to the scholars whose conclusions I discuss so cavalierly. There are collected in the following lists only the identifications concerned with the four great dynasties, the Antigonid, the Seleucid, the Ptolemnic, and the Attalid. The royal houses of Bithynia, Cappadocia, and Pontus have been disregarded for the

<sup>1</sup> have purposely omitted all reference to portraits on gams, since they have peculiar difficulties of their own.

present, though a fine head in the Louvre has with some reason been called Mithridates Eupator. Pyrrhus and Lysimachus have been included merely for the sake of cross reference. The main object has been to shew the unsatisfactory nature of most of the identifications hitherto proposed, and to attempt to provide a basis for further investigation.

E

#### ANTIGONID DYNASTY.

# A - Demetrius Poliorketes.

- Marble bust from Herculaneum. Naples, Inv. 6149. Comparetti, De Petra, xx. 3. Arndt, 353, 354. Wolters, Rôm. Mitth. 1889, p. 37.
- (2) Bronze statuette, Naples, Inv. 5026. Arndt, 355, 356. Jahrbuch d. Sammlungen d. allerh. Kuiserhauses, 1884, p. 52.
- (3) Bronze statuette, Parma. E. F. 73. Six, R5m. Mitth. 1903, p. 216. Schreiber, Studien v. d. Bild. Alexanders, p. 125. R. 2. as Alexander.
- (4) Marble head, Vatican. Sala dei Busti, 338. Helbig<sup>2</sup>, 255. Six, Röm. Mitth. 1903, p. 211, figs. 2, 3 as Alexander Ammon; ibid. 1889, p. 196, 1. Arndt, 489, 490.
- (5) Marble head, Lateran. Benndorf, Schöne, 236. Arudt, 351, 352. Gräf, Bursians Jahresberichte, ex. (1991), iii. p. 136. Schreiber, Studien u. d. Bild. Alexanders, p. 88, 26.
- (6) Louvre. Marble head. No. 457. See Ptolemaic Dynasty, Soter I. I.

Of these five portraits the second and third are too small to have any iconographic value, since they are merely reduced copies. The head in the Lateran (5), though it is clearly derived from a good original, is a very poor copy, and is very hard and spiritless. Still it clearly represents the same person as the beautiful Vatican head (4), which is certainly Greek work of the late fourth century. These compared with the coin portraits appear to correspond almost exactly; most noticeable indeed is the peculiar formation of the brow over the outer corner of the eye. Therefore it seems reasonably certain that in these two heads we have a portrait of Demetrius. The

<sup>&</sup>lt;sup>2</sup> Winter, Johnson 1894, Pl. 8, H. de Villefonse, Cot. Somm. 2321.

By would refer throughout to Armit-Brunkmann's Gr. u. Elm., Perirate (cited us Armit), and Imboof-Binmer's Portratkopts hell, u. hellenisseries Föllers. I wish also to excess my thanks for emistance received to

Miss McDowali, who has read part of my MS., to Mr. Wroth, Mr. Macdonaid, and Mr. G. F. Hill. I have also profiled much from discussing various points with other archaeologists at home and abroad. I am also under great obligations to Dr. Dressel for permission to publish the Fox tetradrachim.

Naples bust (i) on the other hand has some likeness to the coin portraits, but is much younger, and in workmanship it is not very good. However it is possible to assume it to be a youthful and idealized portrait of Demetrius, executed in the last years of the fourth century by a second-rate artist.

A. Pyrrhus,

See Selemens I 2

A. Lysimachus.

See Ptolemy Soter 3.

B .- Phillip V.

See Perseus 1 and 2.

# C. Perseus.

- (1) Marble head in British Museum; from Hadran's Villa. Newton, Guide to Gracco-Roman Sculptures, p. 48, No. 129. Museum Marbles, ii. 23, Brunn-Bruckmann, 80. Hill, Num. Chr., 1896, p. 35, Pl. IV. Petersen, Rom. Mitth., 1895, p. 135, as a Gaul's head. Brit. Mus. Sculpture Cat. iii. 1860. Replicus in Vatican, Sala dei Busti, 310, Helbig, 245, and in Louvre, H. de Villefosse, Cat. Somm., 32. Newton calls attention to the likeness between this head and the portraits of Perseus and his father Philip V.
- (2) Bronze statue, Museo delle Terme. Helbig, 1114. Hill (loc, cit.) says Studniczka identifies it as Perseus. Helbig (Ant. Denk. i. 5) has also identified it as Philip V. Arndt, 358, 359. Six, Rom., Mitch., 1898, p. 77.
- (3) Small marble bust, Naples, Egyptian section, 1037 (now with other busts) Arndt, 347, 348. Six, Rom. Matth., 1898, p. 74.

Of these portraits the first is almost certainly not a royal portrait as there is no fillet round the bead; further it shows no individual characteristics. It is a Roman copy of the imperial period after a Greek original of the early second century s.c. Its style resembles, as stated by Peterseo and Furtwangler, Pergamene work. The Terme bronze (2) has also been called Philip V and Alexander Balas (see below): Helbig rightly says it bears only a slight resemblance to the comportraits of any of the three kings. On the other hand the Naples bust (3) in spite of the severe damage it has suffered agrees with the coin portraits, and is almost certainly a good realistic bust of Perseus.

<sup>\*</sup> Ann. Jun. 1891, p. 141.

II.

#### ATTALID DYNASTY.

#### A .- Philetaerus

Marble bast in Naples, Inv. 6148, from Herculaneum. Arndt, 107, 108. Comparetti, De Petra, xxi. 2. Gercke, Bouner Studien, p. 139. Furtwangler (Masterpieces, 321.1) says the lower part of the face is unlike the coin portrait, and suggests that it may be Philip II. of Macedonia.

There is no fillet round the head to indicate royal rank, but Philetaerus was never Baσιλεύς. So if it were a contemporary portrait no fillet would be expected: but in a post-mortem portrait Philetaerus as a deified accestor would wear a fillet as on the coins of his successors. Philetaerus ruled from 283 to 263 g.c., and this head hardly seems to belong to the first half of the third century. Therein, in my opinion, lies the chief difficulty in identifying it as Philetaerus.

#### B .- Attalus I.

Marble bust, Naples, Inv. 6141, Pt. 1X. 2. Arndt 109, 110:
Petersen, Rom, Mitth., 1895, p. 135: called Aratus, Bernoulli, Gr.
Remographie, ii. p. 153. Gerhard, Neapels aut. Bildwerke, 379.

This head bears little resemblance to the coin portraits" of Attalus; it has no fillet, which Attalus as Basilee's would certainly wear. On close examination it appears to be a portrait, somewhat idealized (perhaps of a Roman general), executed by a good Greek artist in the first century B.C. In certain details it shows a stylistic kinship to the Borghese Warrior.

# C .- Apollouis

Marble bust, Berlin, Pergamon Museum. Führer durch d. Perg. Mus. p. 43.

This identification is only a conjecture. The head from the diadem and veil should represent a goddess or queen: and because it seems to be rather individual in treatment, it is suggested it is Apollonis. There is no other evidence for the identification. Most probably it is a goddess.

<sup>\*</sup> See the Plates in Imboof Blumer, Dis \* See the Appendix below.
Milesen d. Dynastis con Pergamos.

#### HI.

### PTOLEMAIC DYNASTY.

### A .- Soter I

- (1) Marble head, Louvre, H. de Villefosse, Cat. Somm. 849, Welters, Rom. Math., 1889, Pl. III. p. 33. Schreiber, Studien a. d. Bild Alexanders, 198-9. 'Ein richtiges Portrat.'
  - (2) Marble head, Thera. Hiller von Gärteingen, Thera i. Pl 21.
- (3) Bronze bust, Naples, Inv., 5596. Six, Rom. Muth., 1894, fig. 1, p. 103, as Lysimachus, Rossbach, Neue Jahrb. kl. Alt., 1899, p. 53. Comparetti, De Petra, ix. 3. Arndt, 91, 92, as Philip II. Schreiber, Studien u. d. Bild. Alexanders, p. 88, p. 198-9. So falschlich Rossbach.
- (4) Bronze bust, Naples, Inv. 5590, Visconti, Iconographie Greeque, iii. p. 289. See Seleucid Dynasty, Seleucus I, 1,
- (5) Marble bust, Naples, Inv. 6158. See Seleucid Dynasty, Antiochus IV. Aendt, 97, 98,
- (6) Marble hust, Museo Torlonia, Visconti, Museo Torlonia in fetatipia, Pl. XI. 43. See Arndt, text to 97.

Of all these portraits the second is the only one that seems to me to bear, in spite of the damage it has suffered, any great and striking likeness to the coins. It is probably a genuine portrait of Soter: and the essential characteristics of its style, the exaggeration of prominent features to delify the individual, are those of the early third century. The third portrait is possibly, as determined by Six, Lyaimachus: the fourth is almost without doubt a fine portrait of Seleucus Nicator. The fifth is neither Soter L, nor does it, as stated by Aradt, seem to represent the same person as the sixth. On the other hand the sixth, so far as it is possible to judge without seeing the original, is a replica of the first. This head, represented by these two replicas (1 and 6), is possibly a portrait of Soter in middle life; but when the profile is compared with the coin portraits the likeness does not seem satisfactory.

#### R.—Berenike.

(I) Bronze bust, Naples, Inv. 5598. Comparetti, De Petra, vi. p. 266, No. 30. Arndt 99, 100. Bernoulli, Rom. Ikonographie, I. p. 235. Visconti, Iemographie Greeque, pl. 52, 6, 7. Six, Rom. Mitth. 1894, p. 117. Mau, Bull. d. L. 1880, p. 125. Mommsen, Arch. Zeit., 1880, p. 32. Schreiber, Studies a. d. Bild. Alexanders, 198, 10.

Ptolemaie pertrait. Mr. A. H. Smith in his ture catalogue calls it a Hieracles (?) barm.

<sup>7</sup> A form in the British Museum, 2741, is called a Praisurale portrait. If wears a fillet; recently published third volume of the senipbut it is loonographically unless, even if it is a

Bronzi d'Ercolano I. 59, 60, Rossbach, Neue Jahrh M. All., 1890, p. 57, I, as Cleopatra wife of Ptolemy V., Epiphanes,

It is generally admitted that this bust cannot represent Beremike, though Schreiber has recently supported this view. It has also been mamed Ptolemy Apion (Bronzi d'Ercolano), Aulus Gabinius (Comparetti), a Hellenistic prince (Arndt), and the Lady of the Herculaneum villa (Six). Arndt believes the head to be male; Six and Bernoulli consider it female. It is in all probability a male head, and only the hair makes it appear at first sight female. As rightly determined by Six, not only the loose looks round the forehead, but also the whole upper part of the head with the fillet are restored. But the fine curls incised on the forehead, and the close-lying corksurew carls behind the cars, which are original, prove the head to be after an African original. I have elsewhere a called this head a Graeco-Egyptian portrait. There is no reason however for supposing this style of hair-dressing to have been peculiar to Egypt : heads with the hair similarly arranged have been found in Africa." There is no clue whatsoever to the identity of the person here represented. And even if it were known for certain that the Herculaneum dilettante collected these heads as portraits rather than as works of art, only plausible conjectures might be made.

(2) Basalt head, Vienna. Von Schneider, Album d. Ant. Sammlung, 6, xiii, 1. Schreiber, op. cit, loc. cit.

Both von Schneider and Schreiber think this head represents the same person as the Naples bronza. This seems doubtful, since the latter is probably male, while the Vienna head is certainly female. It is good Graeco-Egyptian work, but it is hard to say if it agrees with the coin portrait, since that is found only in conjunction with and behind the head of Soter I. Probably the head belongs rather to the second century.

# C.—Philadelphus.

 Bronze bust, Naples, Inv. 5600, Pl. VIII. 1. Comparetti, De Petra, ix. 4. Arndt. 93, 94. Six, Rom. Mitth., 1903, p. 217. Rossbach, News Julieb, kl. Alt., 1809, p. 50.

Six, since he does not mention Rossbach's previous identification, must have arrived at his conclusions independently. This in itself is perhaps some ground for accepting the identification, that two archaeologists working separately have arrived at the same conclusion. But I must confess that when the head is compared to the coin portraits, the identification does not seem convincing. Further, from its style, the head seems to me to belong to the later third century.

<sup>\*</sup> B.S. J., 1002-3, p. 226, L.

<sup>&</sup>quot; e.g. Drit. Mon. Sculpture Cat. iii. 1773, from Cartinge.

(2) Head, Sieglin collection, Stuttgart. Unpublished; said by Schreiber to resemble the Naples bust, and a small head at Ny Carlsberg (Arndt, 356 c. d). Schreiber, Studies v. d. Bild. Alexanders, 129, 12.

# D .- Euergetes I.

Marble head, Museo delle Terme (formerly in Museo Kircheriano). Mariani and Vaglieri, Guida, p. 42, No. 30.

My friend, Dr. Pfuhl, suggested to me that this head was a portrait of Energetes I. With that view I ventured to disagree, arguing that from its style it belonged rather to the second than to the third century. If it must be a Ptolemy it has far more likeness to the portraits of Philometer: but the fact that there is no fillet seems to be against identifying it as a royal portrait.

# D".—Berenike, wife of Euergetes I.

Head in green basalt, Amherst Coll., Didlington Hall.
 From Berenike. Lady Amherst, Sketch of Egyptian History, p. 189,
 Pl. I.

Since the important parts of the face, nose, mouth and chin, have been broken off there seems to be no ground for the identification; and owing to the damage done to the head a comparison with the head on the coins is impossible. From its style the head appears to be a copy of the early imperial period of a bronze original probably of the third century B.C.

(2) Bronze head from Herculaneum. Naples, Inv. 5599. Comparetti. De Petra, x. 3. Reinach, Têtes Idéales on Idéalises, 220. Bronzi d'Ercolana, I. 63. Rossbach, New Jahrb M. Alt., p. 57, I, as Arsinoe. Friederichs-Wolters, 1603.

There is no reason why this head should be called Berenike. It is probably only due to the same desire for naming heads, which has led to the archaic Apollo bust from Herculaneum being labelled Speusippus. Nor is there any real reason for identifying it as Arsinoe; it has hardly any likeness to her coin portraits. The head is perhaps a portrait; but in any case it is not earlier than the first century 8.c., though it shows kinship as regards treatment with heads similar to an Apollo in the Capitol. Reimach suggests that it is an Artemis after Leochares, connecting it with the Diana of Versailles.

# E-Philopator and Arsinoe.

- See Watzinger, Das Relief v. Archelaos. Brit. Mus Cat. Sculpture iii, 2191.
  - (2) Marble head. Amberst Coll Didlington Hall.

This head is called Arsinoe without any sufficient reason, and it does not bear the slightest resemblance to the coins. From its style it appears to be a copy of about the first century a.D. of an earlier original. The original, to judge by the degree of development of the morbidezza in the cheeks and eyes, would have belonged to the middle of the third century B.C.

(3) See Berenike, Dr. 2.

F-Epiphanes.

Bronze bust, Naples, Inv. 5588. Rossbach. Neue Jahrō. kt.
Alt. 1899 Pl. I. 4. Comparetti, De Petra, ix. 2.

There is no fillet round the head, and it seems exceedingly improbable that it is a royal portrait at all.

Fa.—Cleopatra (I.). See Berenike, B. 1.

6.—Cleopatra (VI.).

 Marble head, Alexandria. Botti, Catalogue du Musée Gréco-Romain, Salle xvi. 301.

This head was found in the eastern harbour of Alexandria, and the whole surface is badly eroded by the action of salt water. When seen in profile, it has considerable likeness to the portrait of Cleopatra on her coins. It may therefore be a portrait of her, but owing to its condition it has little artistic value, and a definite decision as to the likeness is almost impossible.

(2) Marble head, British Museum, 1873 (bought from Castellani), Cat. iii. Pl. XXI.

This head has been called Cleopatra chiefly because of the great likeness shown by the profile, especially the nose, to the coin portraits. There is however no diadem; and the curious arrangement of the hair suggests Roman fashions of the second century A.D. It may be a late Roman attempt to copy an earlier portrait of Cleopatra. But its provenance is Roman; and the workmanship, notably the hard realism of the keen, dry features, is also Roman. Therefore the balance of evidence seems to be against its being a Greek portrait.<sup>11</sup>

IV.

#### SELEUCID DYNASTY.

A.—Seleucus L

(1) Bronze bust, Naples, Inv. 5590, Pl. VIII. 2. Comparetti, De Petra, Pl. X. 1; Arndt, 101, 102. Visconti, Iconographic Gracque iii, p. 289, as Soter I. Wolters, Rom. Mitth. 1889, p. 32. Rossbach, News Jahrb. Mt. Alt. 1899, p. 53, as Soter I.

<sup>&</sup>lt;sup>11</sup> For other heads called Cicopatra, see Bernoulli, Risa. Iton. L. p. 212.

- (2) Marble bust, Naples, Inv. 6150 Arndt, 337, 338. Comparetti, De Petra, xx. 5. Six, Röm Mitth, 1891, p. 279, as Pyrrhus, Helbig, Mēlanges d'Arch. et d'Hist. 1893, p. 377, accepts it as Pyrrhus, and compares with it a head in the Jacobsen collection, which has no fillet (No. 1082, Arndt 339, 340). Rossbach, Neue Jahrh, kt., Alt. 1899, p. 53, as Selencus I.
- (3) Marble head, Museo delle Terme, Mariani and Vaglieri Guida, p. 22, 18, Helbig, 1030.
- (4) Bronze statuette, Naples, Inv. 5026. Visconti, Iconografia Greca ii. p. 80, pl. 3. See Demetrius Poliorketes 2.
- (5) Marble head, Erbach. Anthes, Cat. 17. Aradi 497, 498.
   Visconti, Iconogr. Rom. II. p. 90. Six. Rom. Mitth. 1898, p. 66, Pl. III.

Of these five heads, the Naples bronze (1) is almost without doubt an authentic portrait of Seleucus: in all features it agrees exactly with the coin portraits. In style and execution it is superior to the other royal portraits from Herculaneum both in bronze and in marble. Wolters finds considerable likeness in details between it and the Apoxyomenos. At all events the original of the Herculaneum bust was by one of the first artists of the late fourth century. The second head has only a most superficial likeness to the portrait on the coins, even that shewing Seleucus helmeted. Till any better identification can be proved, it is fairly safe to accept Six's views and call it Pyrrhus. Of the two remaining portraits the fourth has been discussed elsewhere; and the third I have included here because of its superficial likeness to the second, though it represents an older man and is very badly damaged. The fifth head is probably not a portrait, but a Roman attempt at the ideal founded on the type of an Ares.

### B .- Antiochus I.

- Marble bust, Munich, Furtwangler, Beschreibung, No. 309.
   Wolters, Arch. Zeit. 1884, Pl. 12. Bernoulli, Röm. Ikonographie, i. p. 84. Brunn, Glyptothek. 172 (who does not accept Wolters' identification).
- (2) Marble bost, Vatican, Sala dei Busti 275, Helbig,<sup>2</sup> 219, Arndt, 105, 106. Bernoulli, Röm. Ikmographie, ii. p. 30. Gräf, Jahrb., 1902, p. 72, Pl. 3. Milani, Röm. Mitth. 1891, p. 318. Visconti, Mus. Pio-Clem., vi. 40. Ramsay, Cities and Bishopries, t. 56. Hill, Jahresh., ii. (1899), p. 246. Schreiber, Studien u. d. Bild. Alexanders, 273, 1, Nach Gräfs sicherer Deutung. Six. Röm. Math. 1903, p. 215, Gräfs Resultate sicher falsch sind.

In my opinion neither of these heads is a portrait of Antiochus I. The Munich bast (1) has no fillet, and both Brann and Furtwangler agree in

H. S. M.O. Solenci de, Pl. J. 11. Mariani, Vagheri, Guida, p. 22, 21. Hulbig, 3. 22. a hand in the Muses delle Terme. 1032.

calling it Roman work of the later Republican period. Besides it has little or no resemblance to the coin portraits. The Vatican head (2) also has only a slight and superficial resemblance to Antiochus as represented on his coins. In spite of the ivy wreath under the diadem I am unable to believe that the head represents a Hellenistic prince as a reog Διόρυσος. In spite of Hill's disbelief I am more inclined to agree with the opinion that we have here represented a priest of the cult of the imperial bouse,14 as shewn by the medallion on the diadem. The bust of a priest from Ephesus should in particular be compared with this is The head on the medallion is too defaced to admit of identification, but this proves nothing either way. Even if it is a νέος Διόνυσος, it is not Antiochus I, since he was worshipped as 'Αντίογος 'Απόλλων Σωτήρ,10 Visconti's and Milani's identification of the head as an aged Augustus is, as Hill says, without any real ground. Mr. Stuart Jones has suggested to me that this head represents a priest of the cult of one of the later Diadochi. This is very probable, and would satisfy all its peculiarities.

#### C .- Antiochus II.

- Bronze bust, Naples, Inv. 5594; Brunn-Bruckmann, 365.
   Comparetti, De Petra, x. 2. Rossbach, New Jahrb, kl. Alt. Pl. I. 3,
   p. 55. Furtwangler, Masterpieces, 296, 5b.
- (2) Bronze statuette, Naples, Inv. 126170. Not. degli Scawi, 1901, p. 300 (Persens, good Roman work). Hanser, Phil. Work, 1903, p. 157, as Antiochus VIII. Schreiber, Studien ü. d. Bild, Alexanders, p. 279 sqq. See Antiochus VIII.

Of these two portraits the second will be discussed below, and the first is called in Baedeker's Southern Italy 'Youthful Heracles.' This designation is the more correct. One point I feel is certain, and that is that it is no royal portrait at all. It is an ideal athlete type of rather late date: in other words it is an adaptation of the Roman period after Greek work of the later fourth or third century. The features when seen en face have considerable likeness to the 'Hermes' of Antikythera. In style and execution however it is much inferior.

#### D.—Laodice.

Marble head, Constantinople. Joubin, Cat. Somm. 51. Rossbach, Phil. Woch, 1901, p. 1179. Rev. Arch, 1888, p. 84, Pl. XV. From Cyme.

<sup>17</sup> My friend, Mr. A. M. Daniel, fells me that he arrived at exactly the same conclusion, after attolying this bronze independently in Naples. (?). Waldstein, III. London News, 1903, June 8th, No. 21.

<sup>&</sup>lt;sup>19</sup> Of course not a priest of Cassar worship under the Autonines. See the quotation from Conybears in Bansary, Ioc. col.

F Jahresh for all Rig. 131, and PL 9.

<sup>#</sup> C.L.G. 4458.

This identification does not seem to me at all satisfactory, neither does that of the following bust as Selencus II. In fact both heads seem to me to belong to the early Imperial period, to which period Joubin has assigned them.

### E.-Selencus II.

Marble head, Constantinople, Joubin, Cat. Somm. 82, Rossbach, Phil. Wook, 1901, p. 1179, Rev. Arch. 1888, p. 84, Pl. XV. From Cyme.

## F .- Antiochus III.

Marble bust, Louvre. H. de Villefosse, Cat. Somm. 1204
Arndt, 103, 104. Bernoulli, Röm. Ikonographie I. p. 160, No. 32.
Collignon, Hist. Sculpt. Greeque, II. p. 597.

This bust was formerly called Caesar, but is now almost universally admitted to be a fine portrait of Antiochus III. When compared with the coin portraits, which vary considerably in details, the likeness between them is indeed striking, and admits of little or no doubt. However from its style and material (Carrara marble) it cannot be an original, but merely a good Roman copy.

### G .- Antiochus IV.

Marble bust, Naples, Inv. 6158, as Soter I. Arndt 97, 98. Comparetti xxi. 4. Rossbach, Nene Jahrb. kl. Alt. 1899, p. 56.

This bust is clearly a royal portrait: this is proved by the fillet. The strong individual characteristics of the features are striking. Aradt imagines it to be Soter I. (see Ptolemaic Dynasty A. 5): Rossbach identifies it as Antiochus IV. Neither of these identifications is satisfactory. The fact that it has been identified as Soter I. and Antiochus IV., who were, to judge by their coin portraits, totally unlike one another, is in itself evidence that we have still to find a convincing identification. From its style it belongs to the first half of the second century.

#### # Demetrius L.

Marble herm, Naples, Inv. 6164. Rossbach, News Jahrb. Id. All. 1899, p. 57, Pl. II. 6. Comparetti, De Petra, xxi. 3. Furtwängler, Masterpieces, p. 234, Fig. 95.

This head is certainly not a royal portrait. From its style it belongs to the fifth century and from the rendering of the hair to the Polycleitan School. Furtwangler identifies it as a Heracles after Polycleitus and gives a tist of several replicas.

#### . L.—Alexander Balas.

Bronze statue, Museo delle Terme. Helbig, 1114. Rossbach, Johrb, 1891, p. 69, v. Perseus, 2. There is not the slightest likeness between the coin-portrait of Alexander and the profile of the head of this statue. There is also no reason, save that the figure stands in the supposed attitude of Lysippus' Alexander with the spear, for identifying it as a royal portrait. On the contrary it



FIG. L.—HEAD OF ANTHOMES VI IN THE MUSEO DELLE TREME

seems to be a Roman adaptation of an athlete statue of the third century s.c.

## J .- Antiochus VI.

Marble head, Museo delle Terme, Pl. IX. 1. and Fig. 1. Helbigs 1160. Mariani and Vaglieri, Onida, p. 84, 10.

Helbig suggests that this is a portrait of a Hellenistic prince as a νέος Διάννσος. This head has two prominent characteristics, thick, curly, satyr-like hair, and a youthful, chubby, laughing countsmance. These are also present in the coin portraits of the young Antiochus VI, with whose features the individual lines of this head agree, and who was called Διάνυσος, and was the first Seleucid to have that inscribed as a title on his coinage. It is not surprising to find a portrait of Antiochus VI, in Rome. It is known that Trypbon on his usurpation after muclering Antiochus sent to Rome a golden

Nike to win recognition. But the cautious Senate while accepting the gift entered as the donor the murdered Antiochus VI.28

## K .- Antiochus VII.

Marble head, Jacobsen collection. Arndt 578-580. Schreiber, Studien v. d. Bild. Alexanders, p. 289, note to p. 136.

There is in my opinion no likeness between this head and the portrait of Antiochus on his coins. Schreiber gives no arguments to support his conjecture; and in any case it is more than doubtful that it is a royal portrait at all.

### L .- Antiochus VIII.

- Bronze statuette, Naples, Inv. 126170. Notizie degli Scavi,
   p. 300 (as Perseus, good Roman work). Hauser, Phil. Woch.
   p. 157. Schreiber, Studien ü. d. Bild, Alexanders, p. 272, as
   Antiochus II.
- (2) Marble statue, Munich. Furtwangler, Beschreibung 298. Schreiber, Studien v. d. Bild. Alexanders, pp. 82, 275.

The Naples bronze is clearly a portrait; but though there is a fillet round the head, it is in a very unusual position round the crown and also has thin straps. Consequently I am more inclined to believe it an athlete statue as Hermes with his head bound with though like the head in the Capitoline Museum. Further the profile has hardly any likeness to the coin-portraits of Antiochus.

Schreiber's identification of the Alexander Rondanini (2) as Antiochus VIII, is, to say the least, startling. Even if it be not Alexander, the statue from its style is clearly derived from a late fourth or early third century original. Besides the Alexandroid rendering of the face is in direct contrast to the naturalistic coin-portrait of Antiochus: and between the profile of the head and the coin-portrait I fail to see any resemblance.

ALAN J. B. WACE.

#### APPENDICES.

### L-A PORTRAIT OF ATTALUS L

In the Journal International d'Archéologie Numismatique, 1903,<sup>20</sup> I published a Pergamene tetradrachm (Pl. X. 5) with a reverse of Imhoof-Blumer Group IV-V, but having on the obverse a head entirely unlike the

<sup>&</sup>lt;sup>45</sup> n. Bevan, Hours of Selencus, 11, 231.
<sup>46</sup> Helbig <sup>2</sup> 426. Brunn-Bruckmann, 527.

<sup>=</sup> P. 140, Pl. VII.

Philetaerus portrait. This head I conjectured to be a portrait of Attalus I. Mr. Warwick Wroth however, in a brief notice of my paper," stated that he believed the head not to be Attains, but a variety of the Philetaerus head and to be similar to a coin in the British Museum (Pl. X. 5).# He was willing to admit that the head of Philetaerus might however have been varied to suit the portrait of the reigning king. Mr. Wroth has since seen the 'Attalus' head coin, and compared it with the British Museum coin mentioned. He now, after seeing the coin itself, is of opinion that the head is of unusually fine style and no doubt differs a good deal from the ordinary 'Philetaerus' head. This will be evident on a comparison of the heads on the plate (Pl. X. I. 4. 3. 2. 7. 8). The series of Philetaerus heads preserve throughout the same characteristic features. The neck is thick and puffy; the eye is small, and overhung by a heavy brow; the cheeks are loose and flat, and the jaw is heavy; the lips are thick and projecting. These features are clearly traceable in the British Museum coin. But in the 'Attalus' head we find on the contrary a large, open eye set deep and looking upward under a strongly modelled brow. The cheeks are hard, the neck is thinner, the lips are drawn in tightly, and the jaw is less prominent. And in contrast to the jovial and sensual but cunning face of Philetaerus, the expression is one of intense, determined energy.

The coinage of the Pergamene dynasts is noted for its uniformity of type; this has been considered due to political and commercial reasons. And when Eumenes II. coined in his own name with his own portrait he changed the reverse type. Should Attalus I, then have changed the reverse type, when coining with his own head? Eumenes I substituted for the Seleucus head the Philetaerus portrait. Attalus I. altered the reverse type; the shield and inscription changed places and Athena was made to hold a wreath over the latter. And also on one coin of his, the Fox tetradrachm at Berlin (Pl. X. 3), the shield and inscription are both behind Athena. Further Philetnerus on the later coins wears a laurel wreath instead of the simple fillet. I suggested before that Attalus coined with his own head towards the end of his reign. Imhoof-Blumer remarked that considering the length of his reign the coinage of Attalus I. was small. Dr. Gabler tries to rectify this; he suggests that Eumenes I. coined only with the Seleucus head, and assigns Imhoof-Blumer's second and third groups to Attalus I.24 This seems to me untenable. Soon after his accession Eumenes L was at war with his uncle's suzerain Antiochus L, whom he defeated at Sardis. Antiochus I. died soon after, and Pergamum became independent. It is not reasonable to suppose that Eumenes after defeating the Seleucid king in person should have continued to coin with the head

<sup>&</sup>lt;sup>21</sup> Ol. Rev., 1903, p. 475.

E B.M.C. Myma, Pergamum, No. 36,

<sup>=</sup> B.M.C. Myson, Pergamum, 81. It is usually supposed to have been coined at Syros, but I see no reason why it should not have been struck in Pergamum. Cf. Von Fritze, Z. f. N.

<sup>1968,</sup> p. 118. Cf. Kornemann, Beitr. z. all. Gaschichte I. p. 89 cm the delification of the Attalida.

<sup>24</sup> Gabler, Erythra, p. 52.

<sup>22</sup> Straho, tiil. 4,

of the founder of that line. I would then propose a new arrangement thus:-

Imhoof, Group I. Philetaerus.

Group II. Eumenes I.

Group III. (Philetaerus head with laurel wreath.) Attalus I. after Gallic victories, after 240 n.c.

Fox tetradrachm. Attalus I., circa 230 B.C.

Group IV. (Altered reverse.) Attalus I., after final defeat of Antiochus Hierax, circo 228 B.C.

Group IV-V. (Grapes.) Attalus I. after 214 B.C. Defeat of Achaeus.

'Attalus' head. Attalus I. after 201 n.c.

By this arrangement the 'Attalus' head falls into place at the end of Attalus' reign. Apart from it there are at least four changes in the type during Attalus' reign. Further it is not the obverse that matters so much as the reverse." The Attalid dynasty preserved right through its coinage a reverse directly dependent on the type used by Lysimachus. And coms of Lysimachus continued to be struck for purely commercial reasons by Ephesus, Byzantium, and other cities till the second century B.c. It was not unusual for a ruler who wished to coin in his own name and head to begin with a compromise. This was done by Diodotus of Bactria, who coined with his own head, and the reverse and name of his master Antiochus IL " And vice verse Antiochus I coined with his father's head; 28 and the majority of the Ptolemaic coins bear on the obverse the head of Soter L, the founder of the dynasty. The use of the Philetaerus head is exactly paralleled by that of the portrait of Soter I, for not all the Ptolemaic kings coined with their own portraits. Similarly I believe that Attalus I., when he felt strong enough to stand alone, began to coin with his own portrait, still keeping the same reverse for commercial reasons, and preferred to leave the inscription OIAETAIPOY for political reasons as indicating no change of policy towards the Asiatic cities: though perhaps his uncle's name as Lysimachus' treasurer had a commercial value in Asia. Eumenes II. returned to the Philetaerus head type, because he had his reputation to make, and his realm was in danger from Antiochus III. But he eventually coined with his own portrait, and a new reverse. Attalus II. for similar reasons preserved the old type. But some day we shall also have a portrait of him perhaps; and it would not be surprising if gold coins of Pergamum were to be found.

<sup>\*\*</sup> Cf. the Apollo on the Omphalos type of the Seleucids, and the Ptolemnic eagle. The Phoenician cities even under the Seleucida still atrack with an eagle inverse obviously for commercial reasons.

B.M.C. Seleunide, Pt. V. 7.

<sup>#</sup> J.H.S. 1903, p. 110.

The gen in Puris (Coll Laynes, 154, Furtwaugher, General, Pl. 33, 11), which I previously tried to identify as Attalna, is perhaps judging by the coin a portrait of him. But there are shanges in the setting of the sye and mouth; and the omission of the fillet is hard to explain. The British Museum

Since the above was written I have had the opportunity of discussing the points raised with Dr. von Fritze. He believes the Attalas head to be the best portrait of Philotaerus, and does not agree with my proposed redivision of the Pergamene series, but admits that the Attalas head coin was struck towards the end of the reign of Attalas I. To him I owe my knowledge of the Modems replica of the Attalas head (Pl. X. 6) whose obverse is from the same die as my coin. He also informs me there is another tetradrachm of the Fox type at Florence, both obverse and reverse being from the same dies as the Berlin specimen.

## II.—Seleucus, Son of Antiochus I.

Mr. Macdonald has suggested that an unknown head on two Seleucid coins 36 inscribed ΒΑΣΙΛΕΩΣ ΑΝΤΙΟΧΟΥ, that from their style and the border of dots belong to the reign of Antiochus I, or his successor, is a portrait of Seleucus the eldest son of that king. 31 The obverses of these coins are from the same die, and therefore by the same artist. We have

\*Philamerus gem which Furtwangler said was similar in style to the Paris gem, and perhaps by the same artist, is a forgery. So no assistance towards the identification of the coin partial is to be obtained from gens. Cf. Journ. Int. Acch. Nam. 1963, p. 146, Pl. VII. 9, 10. Furtwangler, Gemmes, Pl. 33, 10. a. J.H. S. 1963, Pl. L. 6, 7, p. 116, I would refer throughout to this paper by Mr. Macdomald, Bernn's House of Schwins, and U. Wilnen's articles on the Antiochi in Paniy-Wissowa.

31 The bead on the e coim has been identified by Dr. von Fritze as a portmit of Antiochen Histax (Traja and Him., p. 503). This is shown by Mr. Macdonald (J.H.S. 1963, p. 110) to be an impossible identification, and he gives us another portrait of Hierax after proving that the head usually called Hierax is Antiochus II. (J.H.S. 1903, Pl. H. L. 3. 4). I feel myself smable to accept this head as a portrait of Hierax, for the simple reason that there is no difference in the features between it and the heads proved by Mr. Mandonald to be Anticchis II. No other supposed pertrait of Hierax stands any real test; and yet it is acknow-ledged that coins must have been struck for Hierax, if only to pay for troops and supplies during his wars against his brother Seleucus II. and Attains L. The solution seems to me to be simple; no coins were struck with Hierax' own portrait. Mr. Macdonald has shown (J.H. S. 1963, p. 114) that Hierar' supporters, his mother Landice and her friends, coined with

the head of his father Antiochus II. It seems nunecessary to explain a rather younger-looklog hond of this king, atruck after his death, by urging that because it is young it must be Hierax, especially since his party caused it to: be struck. Histor when his father died was about 10 (Beloch, Gr. Geathichts III.2 p. 454). and must then have been entirely under his mother's centrol; this would account for his not coining with his own head when his brother had been driven from Asia Minor after the battle of Anoyra. From 242 to 228 during his arrangels with his brother and Arrabas he was from 14 to 27; and as he grew older his party's power decreesed. He died a fugitive in Thrace before 226 about the age of 28. Hierax probably these most of his supplies from coinage struck by cities that helped him, such as Alexandria Tross. It is reasonable to believe that these cities in view of Hierax' empertain position would not have risked their own existence by displeasing the rightful king by coming with his usurping hosther's portrait. To continue to strike with the head of Antiochus II. could not displease either brother, whichever eventually proved victor. That these cities in the Troad were but half-hearted supporters of Hieras is proved by their subsequent absulfast loyalty to Attalus (Polybras v. 78). The only evidence that Hierax was made viceyoy in Ania Minor by Selencus II. is Justimes (xxvii. 2. 6). He is not, however, mentioned in the cumiform ins riptims as mich.

to deal then with one die only. On a close comparison of this head with Mr. Macdonald's standard portrait of Antiochus II., the features appear the same. We have not two different persons, but two portraits of one person. The features do not vary; only the method of treating them is different. The eyes in both heads are deep set, but look out straight forward from large sockets. The line of each nose curves out to a point: the lips are thick and project; and in each case the line of the jaw sweeps round to a firm chin. But the treatment of the young king's head differs. The standard portrait is that of a lean, energetic, but sulky-looking youth not yet fully developed. The other head is that of a chubby, disagreeable child somewhat idealized. But even if this identification is not accepted, there are still grave reasons for refusing to acknowledge it as the head of Seleucus. The coins as shewn by Mr. Macdonald were struck in the Troad. Sciences was associated with his father, and was viceroy in Babylonia as Antiochus I had been before him. His father's rule as viceroy had been only over the lands east of the Euphrates.33 There is every reason to suppose that Antiochus I. imitated his father, and made his son viceroy only as regards territories east of the Euphrates. If Selencus' writ did not run west of that river, why should his head appear on coins struck in the Troad ! " In the Branchidae inscription " which is now taken to refer to Seleucus L and Antiochus L. 30 both Bartheis are mentioned in the heading, but it is Seleucus alone who writes the letter. Similarly a rescript to Erythrae # dealing with contributions for the Galatian war is written by Antiochus I. alone. Antiochus the young son of Antiochus III. wrote a letter to the citizens of Magnesia ad Macandrum in his own name. 88 But in this letter he makes special mention of his father, and remarks on τὸ πρός ἐμε ψήφισμα. And further the letter is inscribed on the same pillar as and below a letter of his father replying to a similar letter and an embassy of the Magnesians about the festival of Artemis Leucophryene.

The Signan inscription, which is in honour of a physician for his loyalty towards the βασιλείς Antiochus and Seleucus, and for his successful treatment of Antiochus, probably, as Wilcken suggests, refers to Antiochus I. and his son. But it is no evidence that Seleucus had any authority in the Troad. Nor does the decree of the Ionic Confederation addressed Τοῖς τε Βασιλεύσι 'Αντιόχω και 'Αντιόχω και τῷ Βασιλίσση Στρατονίκη prove that the junior βασιλεός had authority outside of his own special territories. Το judge by the coin inscriptions, Antiochus I., when noting as his father's viceroy in Babylonia, was not full βασιλεύς. The coins

<sup>&</sup>lt;sup>36</sup> J.H.S. 1903, Pl. ↓ 3, µ 108, G. also
Pl. J. 10.

<sup>32</sup> App. Syr. 62

<sup>&</sup>lt;sup>34</sup> Mr. Macdonald suggests a possible answer to this, op. cit. p. 111.

<sup>31</sup> C.I.G., 2852 = Dittenberger, Spll., 170, Hicks, 175.

<sup>\*</sup> v. Wilcken in Pauly-Wissowa v.s. Antiochus.\* Hanssoullier, Rov. Philot. 1898, p. 121, 1900, p. 256.

Hicks, 1 104.

Kern, Inschrift, v. Magnesia v. M. 18, 19,
 Hicks, 165. Dittenb. Syil. 157.

<sup>&</sup>quot; Michel, 486.

are inscribed ANTIOXOY ΣΕΛΕΥΚΟΥ ΒΑΣΙΛΕΩΣ, Antiochus; son of king Seleucus. That this translation is correct is proved by the inscriptions which in every case use the plural Barcheis And Pliny " mentions Itemodamas Science et Antiochi regum dua : this is clearly a translation of Annaδάμας Σελεύκου και Αντιόχου βασιλέων στρατηγός. The right of coinage was far more of a royal prerogative than mere titles on honorary inscriptions, Antiochus seems to have coined under license from his father. There are coins extant however struck in the types of Selencus L45 bearing a different inscription ΒΑΣΙΛΕΩΣ ΣΕΛΕΥΚΟΥ ΑΝΤΙΟΧΟΥ (Pl. X. 9) These coins are all of Indian provenance; they are of Bactrian fabric and were all struck at the same mint, probably Dionysopolis or Nysa. Six " rightly attributed these to Seleucus the son of Antiochus I. Seleucus made himself full βασιλεύς, and coined in his own name, styling himself son of Antiochus merely for form's sake, before declaring himself fully independent. These coins explain why Antiochus decreed his eldest son's death. John of Antioch says " 572 'Αυτιόχου . . . υίος Σελευκος και 'Αυτίοχος ὁ ἐπικληθείς θεός άλλ ὁ μέν Σέλευκος, ἐπιβουλεύειο ὑποπτευθείς τῷ πατρί, κατακτείνεται. Trogus 16 merely mentions Ut in Syria ver Antischus cognomius Seter, altera filia ceriso, altero rege nuncupato, decesserit. We now have a fairly clear idea of the nature of Seleucus' crime. He not only meditated but had actually begun to earry out a plot to rebel against his father. When this occurred is uncertain. Our authorities for dating this event would be the cuneiform tablets from Babylon. And these, even if rightly read, contradict one another. They give us the following list of kings for the reign of Antiochus L :

Seleucid Era. 37. Antiochus and Selencus. 17

38. Antiochus and Seleucus.

39. Antiochus and Antiochus. 48

43. Antiochus and Selencus. 40

46. Antiochus and Antiochus his son,48

47. Antiochus, the great king, and Antiochus.45

49. Antiochus and Selencus.48

Lehmann, to however, has recently shewn that the heading for the year 39 should read Antiochus and Seleucus. We must then assume that Seleucus met the fate he deserved in 268–267 B.C., as the heading for the year 43

<sup>&</sup>lt;sup>46</sup> Gardner, Num. Chr. 1880, p. 189, Six, do, 1898, p. 226.

<sup>10</sup> Nat. Hist. vi. 18,

ss Obv. Bearded Zens laurel wreathed. Rec. Athena driving quadrigs of elephants.

<sup>\*\*</sup> Six, Num. Chr., loc. vil. Ci. Gardner, loc. vil.

<sup>#</sup> F.H.G. iv. 538, 55.

<sup>#</sup> Prof. xxvi. Malalas says Selencus died young, p. 205.

V Zeitschr. f. Assyriologie, vii. p. 226.

of o viii. p. 108. For year 50 one tablet gives as king Antiochus, but another tablet of the same year gives as king Schemus; and in year 59 Antiochus II. was sele king.

Schrader, Keilinschrift, Bibliothek (ii. 2, p. 136.

Echmann, Beitr, n. ult. Geschichte, 1903, p. 526, 1.

dates from Adar ( = March 268). Since Antiochus' marriage with Stratonike took place about 294-293, Seleucus, if he was born as early as 292, was 17 in 275. Unfortunately, however, there are no tablets for the earlier years of Antiochus' reign, so we cannot say whether this was Seleucus' first year as viceroy or not. Perhaps he was not of age till 275. His younger brother Antiochus, who was 40 when he died in 246, was therefore 20 when made vicercy about 266. His immediate promotion shews he was of age. Also Ptolemy Epiphanes, who was betrothed to Cleopatra, dan liter of Antiochus III., about 198, did not marry her till 193, when he was about 18,31 Very possibly Seleucus' appointment as viceroy was part of Antiochus' preparations for the first Syrian war, which was already begun in 274, though in late autumn 275 there was still peace.52 In connexion with this war to secure an alliance between Magas and Antiochus, Apame, the latter's daughter, was married to Magas not later than 274. Apame's daughter, Berenike, was of marriageable age when Magas died (258-250), therefore Apame was probably at least 16 in 274.50 If she was older than Seleucus, he would have been barely 16 when made viceroy in 275; this seems hardly probable, though it is possible. Antiochus III. made his son viceroy when only 12, and Antiochus, son of Antiochus IV., was only 3 when declared viceroy. Still in spite of the fragmentary nature of the history of the period, we have been enabled to patch together enough to give us a passing glimpse of the character of Selencus, who fell a victim to his own unfortunate ambition, as might have been expected from a grandson of Demetrius Poliorketes.

A. J. B. W.

<sup>#</sup> Mahnify, Elmp. of Ptolemies, p. 306.

<sup>&</sup>quot; Lehmann, op, oct. p, 198 ogg.

Mer stear Stratonike married Demetrius II., of Macedonia: there is no reason to suppose with Wilcken (Panly-Wissawa a.v. Apame 3) that Apame was the younger because Eusebins

<sup>(</sup>I. 249) mentions Stratonike first. All the dates as regards Stratonike's marriage and divorce and her husband's birth are conjectural. Cf. Belech, Gr. Geschichte III. 7, p. 93, 597.

### NAUKRATIS, 1903.

In the spring of 1903 I was enabled by a grant from the Craven Fund of the University of Oxford to return to the site of Naukratis. Having left certain parts of the Mounds unexplored in 1899 because they were either too high, or too sodden with the infiltration of water, I intended to attack them whenever the sebakh diggers should have removed the unproductive upper layers, and a season of low Nile level had occurred. The results of this campaign, the last, I expect, that will be undertaken at Naukratis, I embody in the following Report, discussing at the same time certain points on which new light can be thrown from other sources.

### A .- THE SITE.

The identification of the site of Naukratis, so brilliantly made by Mr. Petrie, has never been questioned. All scholars agree, moreover, with his contention that Naukratis lay to west, not east, of the Great or 'Agathodaemon' Nile of Ptolemy. Mr. Petrie, however, maintained that the town did not lie actually on that river, but on a derived Canal. His grounds were these. (1) Herodotus (ii. 97) says that during the Intuition there was water passage from Naukratis to Memphis under the Pyramids: but that the usual way lay by the apex of the Delta (i.e. by the river itself): (2) Strabo (xvii. 23), after mentioning the Nitriote Nome in the course of a geographical survey, which proceeded from north to south, says πλησίου δε και ένταῦθα πόλις Μενέλαος ἐν ἀριστερὰ δὲ ἐν τῷ Δέλτα ἐπὶ μὲν τῷ ποταμῷ Ναυκρατις. This statement, said Mr. Petrie, in that it placed the town on the left bank of the river, was the result of a confusion in Strabo's mind. For, in fact, Naukratis was on the right of the Canopic Nile as one ascends. Strabo should have said on the left of a derived Canal.

In this interpretation of his authorities, the arguments for which failed at the time to convince his colleague, Mr. Griffith, Mr. Petrie seems to have

<sup>1</sup> See B.S. A. vol. v. pp. 26 ff.

<sup>&</sup>lt;sup>2</sup> Nouk. ii. p. 83. I do not agree with Mr. Griffith's argument either, though I come to his conclusion. I see no reason for placing

Naukratis on the East of the river, not supposing 'Delia' as used by Strabe to mean only the land between the rivers and the fact that Ptolemy put the None of Naukratis on

been wrong. Herodotus in expressly stating that the route via the Pyramids existed only in Inumitation time, and that the usual route was by the river. supplies no ground for assuming the existence of a canal. Nor does Strabo. In the passage quoted above, the latter, I have no doubt, meant by & aprovepa, to left, not of the river, but of the Nitriote Nome and Menclans, to which be had just conducted his readers. From that digression into the western desert he returns eastward (i.e. to the left hand) to the Delta (by which he probably understood, as we do now, not only the area between the Niles, but the whole fan of irrigated land) and clearly states that Naukratis lay on the River. To the ordinary authorities, which support him in this, may be added the Coptic recital of the Martyrdom of the Blessed Epimachus edited and translated by F. Rossi,2 wherein the Saint is brought to 'the place called Naukratis and there remained on the river. On the great stella of Nectanebo discovered upon the site of Naukratis in 1899 (published by G. Maspero and commented on later by Messra Erman and Wileken ') it is emocted that the stone be set up in Nankratis on the bank of the Ann ('nw) stream, i.e., without doubt, on the bank of the Great River

### B .- HISTORY.

### (1) Foundation.

The question whether Naukratis existed before the settlement of Greeks there by Amasis (circa 570 g.c.) is still open; but a new aspect has been given to it by facts not sufficiently considered in the original controversy between Messra. Petrie and Gardner on the one hand and G. Hirschfeld on the other, or in the vesume of M. Mallet. Attention was drawn repeatedly in E.S.A. vol. v.\*, as a result of the excavations of 1899, to the distinctively Egyptian character of the southern half of the Mounds; and among other inferences, the suggestion was once more made that there was a distinct Egyptian town on the site which existed before 570 g.c. The first part of this suggestion found almost immediate support through the discovery of the stela of Nectanebo, already mentioned (it came to light almost in the centre of the southern area called by Mr. Petrie The Great Temenos'); for this speaks of the place under an Egyptian name, Pi-emro, adding 'called Naukratis' But an inscription of the fourth century has,

the East does not justify Mr. Griffith in saying that although Projemy expressly stated the four was on the west, he was really perturing it to bimself as on the east! It is worth notice that, in the Revenue Papyrus of Philadelphus, there is no Nankratite Kome, but Naukratis itself is attached to the Saltic, evidently as a place not in the Nome, but man it. (Zairy) she Naukpares.)

Cat.: Zeitsch, für Ägypt, Sproche 38, part 2, p. 197.

Pap. Copti del Musso Torince in Mem. R. Accad, Scienze Torino, 2nd Ser., vol. xxxviii, pp. 271-298.

<sup>\*</sup> C. R. Acad. Inur. 1899: Cairo Museum

See cap, the former's letter to the Academy, July 16, 1887; and the latter's remarks on p. 71, and elsewhere of Nissk, ii.

<sup>6</sup> Rh. Bius, 43, p. 200.

<sup>2</sup> Man. Mission du Caire, 1893.

See usp, pp. 45-48.

<sup>\*</sup> It was made in Smith's Diet. Goog, a.v. and was repeated by Mallet, op. cit. p. 150.

<sup>&</sup>lt;sup>10</sup> Erman, Le., but according to Maspro, Pa-meraiti.

of course, but little bearing on the second part of the suggestion, etc. that such a town existed in the sixth, seventh, or earlier centuries.

The excavations of 1903, however, while fully confirming the distinction of the site into a northern Greek quarter and a southern Egyptian quarter, also tended to support a suggestion first made by Mr. Petric, 11 that the south part of the site was the earliest occupied. The thick burnt bottom stratum, which Mr. Petrie dated before all other human remains on the site, was found wherever we sank pits between Mr. Petrie's 'Scarab Factory' and his Great Temenos, but nowhere either north or south of this area. In a series of pits, which I pushed southward from the southern edge of the central excavated area up to and even within the southern limit of the 'Great Temenos area, the basal mud occurred at an average depth of 5 feet. Upon it, varying from one to two feet in thickness, lay this burnt stratum of charcoal and ash, containing no sherds but rough 'kitchen' ware in which I fail to detect any necessarily Greek character: while the two undisturbed feet of deposit superincumbent contained a little painted white-faced Naukratite pottery (such as that which lies in the bottom stratum on the north) and black-figured sherds, and abundance of fragments of figurines and amulets in the same glazed 'sandy ware' as that described by Mr. Petrie (Nauk, i. p. 14). The apperment stratum was naturally a hotchpotch of disturbed stuff, among which, however, occurred only a very small amount of Greek sherds. This region has been the scene of a conflagration, which devastated but a small area, and may either have been accidental or kindled with intent to effect a certain clearance.

The glazed 'sandy ware' objects, which are the rarest of finds at the north end of the Mounds, but on the south the most frequent, at whatever point a pit is sunk, occurred with these scraps of the earliest painted Naukratite vases, but also at a lower level than the latter were ever found. The beginning of the fabric must therefore be dated before that of the local painted pottery of Greek manufacture. It had been a flourishing industry for some time before the latter began, but it flourished in the south of the site only.

To show how the classes of remains differ at the two ends of the site. I quote from my day book that on May 1st and 2nd, while digging exclusively in the southern quarter, Mr. Edgar and I found five Egyptian bronze figurines; fragments of three faience bowls with incised patterns and hieroglyphics: two stone figurines, Egyptian style: one alabastron: seventy-three glazed sandy ware Egyptian cult figurines or amulets: and seven painted Greek sherds. Whereas in the three weeks during which we dug out the north end, and there found so much Greek painted ware that after wholesale rejection we had to pack nearly a thousand specimens, we came across no Egyptian bronzes; no incised faience; and under twenty objects, all told, in glazed sandy ware.

It is not necessary to insist further on this distinction between the north

<sup>&</sup>quot; Nouk. i. p. 21, but somewhat unaccountably contradicted by Mr. Gardeer, Nouk. ii. p. 34.

and south towns, between Pi-emrô and Naukratis. It was sufficiently set forth in B.S.A. v., and indeed was indicated in the Memoirs of Messrs. Petrie and Gardner themselves. But, if it be conceded also (as seems inevitable) that the Egyptian end of the site was the earliest inhabited, then the arguments of those gentlemen, claiming an earlier date than 570 for the Greek settlement, on the ground that there is evidence of prior settlement on the site itself, lose their cogency; for that evidence refers, not to the Greek, but to the Egyptian town. I need only call further attention to Mr. Edgar's argument, stated in B.S.A. v. p. 49, that the glazed 'sandy ware,' if not Egyptian, was probably a Phoenician and certainly not a Greek fabric—an argument which has not been assailed.

Although, however, the Egyptian town was the earlier, the contention that Greeks were settled on some part of the site before 570 is not disposed of, if it can be supported on grounds independent of the earlier remains in the southern Mound. The literary argument stands where Hirschfeld, Gardner, and Mallet left it, except for this fact—that if there were a previous Egyptian town, Herodotus' phrase in regard to Amasis' settlement, τοῖσι ἀπικενευμένοισι ἐς Αίγυπτον ἔδωκε Ναύκρατιν πόλιν ἐνοικῆσαι, becomes intelligible, without assuming the previous presence of Greeks (ct. Nauk. i. p. 4 and ii. p. 71). The epigraphic argument of Mr. Gardner has not been re-asserted during the past five years against the destructive criticism of Mr. Edgar (B.S.A. v. p. 52), and has not received any support from the inscribed sherds found in either of the later excavations.

On the whole, however, though agreeing with Hirschfeld that the statement of Strabo (p. 801), owing to his use of the word  $\chi\rho\delta\nu\rho$ , may refer to so long a space of time as to be quite reconcileable with the Herodotean date, I see no adequate reason for rejecting the previous presence of Milesians on a small part of the site later devoted to a general Foreign Concession. There is some, if very little, independent positive evidence for it (of an inferential sort) in the statement which Jerome rejeated from Castor, and in the tale of Polycharmos, cited by Athenaeus (xv. 18); while there is no direct evidence proving a negative.

### (2) Vicissitudes.

(a) Mr. Petrie's argument that the town suffered a great general disaster early in the sixth century (which he ascribed to the troubles attendant on the succession of Amasis) was based on (1) the existence of the burnt bottom stratum, (2) the sudden cessation of the scarab manufacture at the opening of the reign of Amasis. It is greatly weakened by our observation (which nothing in his own excavation-notes contradicts) that the burnt stratum is limited to a small area; and by Mr. Edgar's probable suggestion that the scarab manufactory, being a Phoenician affair, ceased (if indeed it did cease) it on the concession of a part of the site to the Greeks

The argument from the absence of Amasis' one: for Necho's name is equally wanting surtouches is, as Mallet showed, a very weak.

by Amasia. For this concession may reasonably be supposed to have excluded other foreigners. On the whole, therefore, it is unnecessary to assume any more cataclysmal event at this period than the disturbance of other aliens by the Greeks settled under the terms of Amasia' concession, which I still regard as a measure of compulsion and restriction rather than favour.

- (b) The argument stated in B.S.A. v. p. 36 that there was no subsequent interruption of Naukratite prosperity was not supported by the observations made in 1993. Mr. Gardner, who judged, from the state in which he found votive objects distributed round the southern Aphrodite Shrine, that 'some calamity befell the city' (during the Persian invasion under Cambyses) seems to have been right, although other causes might have led to the breaking and casting forth of dedicated vessels. There is clear evidence that the structures in the Northern Temenos, which I name the Hellenion, were restored practically from the foundation in the first half of the fifth century. (See below, p. 114.) The first explorers argued from their failure to find good red-figured pottery. This negative observation has been weakened by the sherds uncarthed in 1899, and still more in 1903. Red-figured ware of several periods and of all qualities, including the very finest, occurred in the northern Temenos; as also did the later varieties of black-figured ware, But imported red-figured ware of the early period of severe style was, in fact, found very rarely; and this fact points to an interval of commercial stagnation having taken place in the first half of the fifth century before the visit of Herodotus.
- (c) A general Ptolemaic restoration, involving the rebuilding of the northern shrines on artificial mounds of sand, heaped over their ancient sites, is certain. But, as was said in B.S.A. v. p. 37, this may be supposed to have been due not to the city having fallen to ruin, and much less to its having fain in ruin for any length of time, but simply to the well known Ptolemaic policy of renovating, almost refounding, cities and shrines throughout Egypt as a justification of the new Dynasty. This, as before suggested, had to be done at Naukratis in a thoroughgoing way, probably owing to rising damp. As will be stated more in detail when we come to speak of the Hellenion, a belt of unproductive sand was found to overlie remains ranging from the first half of the sixth to the latter half of the fourth centuries, many of which, notably those of an architectural nature, had obviously been bedded down to receive the sand. Above this belt were found the pavements and walls of a connected series of chambers, in which nothing pre-Ptolemaic occurred.

## (3) Extinction.

The disappearance of Naukratis has certainly been dated by Mr. Petrie too early. His argument that, after a period of revived prosperity under the Ptolemies, the city decayed rapidly under the Empire, is probably stated too strongly. The decay was only relative. A community, which could produce men of letters and philosophers in the third century A.D. was still vigorous;

and that it was by no means so extinct as Mr. Petrie maintained, by the end of that century, is amply proved by the inclusion of Naukratis in lists of important towns and bishoprics of much later date, e.g. the Greek lists of Hierocles (early 6th cent.), and Leo and the Coptic List of Episcopal Sees, published (from two MSS.) by M. Amélineau as fourth appendix to his Géographie de l'Égypte à l'Époque Copte. It is mentioned in the stories of two Coptic martyrdoms, and a merchant of the place plays a part in Heliodorus Acthiopica, written late in the fourth century. The name does not occur, however, in any of the later Coptic Scalae (see Appendices to Amélineau op. cit.), and we may therefore infer that Naukratis had lapsed by about the tenth century to a village, or rather to a group of villages, of which Nekrash, Gayif, and Nebireh survive.

### C.-TOPOGRAPHY.

## (1) The Hellenion.

Whatever the date of the first settlement by Greeks, no one has ever ascribed the foundation of the *Hellonion* by the nine cities of Asia to an earlier period than 570. The only question concerns its position on the site and its identification with existing remains. It may incidentally be remarked that Mr. Petrie, in his original publication, constantly assumed two things in regard to it which the text of Herodotus does not warrant, (1) that it was called the *Pan*-Hellenion; (2) that the market, presided over by the same nine cities, was held in its Temenos.

Mr. Petrie located the Hellenion in an area at the south end of the site, which he called the 'Great Temenos,' and drew certain historical inferences from the remains there observed, which were accepted by Mr. E. A. Gardner, and by scholars generally up to 1899. In that year, as the main result of my first campaign on the site, I advanced the view that the Hellenion had nothing to do with the 'Great Temenos' at all, but was to be found in another Temenos at the north end of the Mounds—in the Greek quarter, in fact, not the Egyptian (B.S.A. v. pp. 42 ff.). In 1903, I was able (thanks to an unusually dry season) to continue the exploration of the northern Temenos, as far as the extreme limits of uncultivated land; but before the results are described a word must be said about the rival site, the 'Great Temenos.'

# (a) The 'Great Temenos.'

One of my principal objects in returning to the site of Naukratis in 1903 was to probe for foundation-deposits which might show under what Pharaoh was built the immense Wall, described and mapped by Mr. Petrie as surrounding his 'Great Temenos.' In the event I spent a week searching for its north-west corner, the only one whose position on Mr. Petrie's plan lay clear of cultivation or houses. I may say at once that not only did I never succeed in finding that corner, but—a most unlooked-for result—I never

found any clear evidence of the existence of a Great Wall of any kind. As Mr. Petrie's benchmarks were no longer recognizable, and his plan had been somewhat roughly made, I could not lay down on my own chart the position of the invisible corner with any precision; and I had to make wide casts for it from various sides. I first tried to hit the outer face of the north wall of his 'Temenos' by a series of pits pushed up from the north; then I tried to get the inner faces both of that wall and the western wall by a similar method from within the 'Temenos': then I tried for the outward face of the western wall, beginning far outside the possible area on the west, and advancing eastwards. In this way I have no manner of doubt that I completely traversed in several places the lines on which both the north and west walls ought to have been. But I never found any solid mass of brickwork of one-fourth the dimension ascribed by Mr. Petrie to his 'Great Wall.' What I did find was a much ruined complex of buildings, the lower of which were made of bricks of the dimensions recorded by Mr. Petrie in his Temenos Wall; while the upper, surviving as one upstanding block in the very centre of the line in which the north wall of the Temenos was to be looked for, showed beneath their lowest courses a belt of earth containing pottery (including a few bits of Greek wares) not earlier than the fifth century R.C. The broadest wall actually lighted upon in these trials was one running north and south, measuring sixteen feet across: it formed the west side of a group of chambers, which had the character of a dwelling house. On every occasion on which I found a wall, chambers eventually opened on either hand of it, before a quarter of the requisite solid breadth had been revealed.

Since the cemetery mound on the south-west, which Mr. Petrie believed to be a surviving part of the Wall, was still there to guide me, it is not possible that I can have missed altogether the line of both the west and north walls of the Temenos as plotted by Mr. Petrie. Nor can it be supposed, in view of the antiquity which Mr. Petrie claimed for his Temenos Wall, that I was digging below its original site, and opening out chambers antecedent to its foundation. Therefore, with all diffidence (for it is almost impossible in such a case to prove an absolute negative), I must state my conviction that (for once) Mr. Petrie was mistaken in the nature of certain masses of construction, which exist on three sides of the area called by him the "Great Temenos"; and that these represent not a solid wall of brickwork but an aggregate of house remains, piled up round a lower area, wherein lay the Egyptian temples and public buildings, of which one contained the Nectanebo Stela, and another was excavated by Mr. Petrie himself and regarded as a Greek fort. This area was, in fact, the central area of the town, Pi-emrô. I make this suggestion with the better assurance since it does not appear from Mr. Petrie's own narrative that he ever tested the nature of these masses of construction by systematic digging. He seems (p. 24) to have relied mainly on the statement of local Arabs that there had been within their memory mounds on three sides of this area, as high as that surviving mound on the south-west, which he did not excavate for fear of disturbing modern graves. These other mounds, he says, were already reduced in 1884 to the

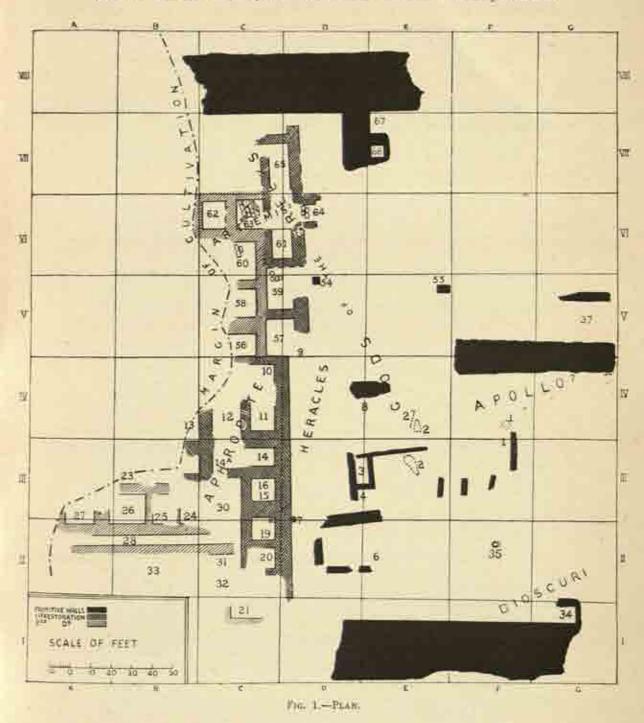
general level. As for the high mound on the south-west, still surviving, this also appears to me, who have often examined it, not to be a solid mass of brickwork at all, but a nucleus of chambers, such as that I found on the north-west. Mr. Petrie may have been deceived by the outcrop on its inner face of some continuous house-wall, now removed. In a word, I venture to assert not only that there is nothing answering to the Hellenian in this part of the mounds, but no Great Temenos at all. Probably there existed here small precincts of Egyptian deities (to one of which the Ptolemaic pylon explored by Mr. Petrie gave access), surrounded by a high ring of mud-brick houses.

I trust it will not seem presumptuous if I say that at the time and under the circumstances in which a greater digger than myself explored this area, such a mistake as I have supposed was well night inevitable. Indeed the mistake (if such it was) was acquiesced in by all Mr. Petrie's condjutors and by myself in 1899. Although I had then every reason to transfer the Hellenion from this area, its superficial resemblance to a Temenos made me accept it without question as one great enclosure. In 1884, the deposit was much deeper over all the area. To follow the faces of the supposed enclosure walls could only have been done at great expenditure of time and money: to cut a test trench across or sink a pit upon the surface. was probably to be confirmed in error; for the former was as likely as not to hit a broad wall which would continue along the axis of the trench; the latter to descend on to solid brickwork. Starting with the presumption that a great Temenos, other than those he had found in the north centre. must exist on the site, and having no reason to distrust a southern situation for this, Mr. Petric could hardly help finding it in the vast southern quadrilateral hollow.

### (b) The Northern Temenos.

The first part of the campaign of 1903 was devoted to the rival site on the north, the Temenos which I discovered in 1899, and identified with the Hellenion, because of its locality, the great size of its outer walls, and the occurrence within it of dedications not only to various individual gods, but to the Θεοί τῶν Ἑλλήνων, not commemorated elsewhere on the site. The second exploration confirmed the conclusions of the first in three important respects. (1) I laid bare remains of the east wall of this Temenos, finding it to be of a breadth comparable to that already found on the west. (2) I again found dedications to the 'Gods of the Greeks,' and others in individual honour of Aphrodite, and (for the first time) Artemis. (3) I showed that the series of small chambers, opened in 1899, was continued eastward right across the 'Temenos by others belonging to the same periods, and similarly containing remains of dedicated pottery, the formulae on which seemed to indicate that distinct groups of chambers were devoted to distinct deities.

The excavations of 1899 had been suspended in their eastward course on the parallel bounding the horizontal series of squares IV (II on the 1899 plan) on the east; and beyond that line, two or three trials only had been



made which showed fragments of wall to exist (marked 54-55, 37 on the Plan, H.S.—VOL. XXV.

Fig. 1). In 1903 I took that line is as the left flank limit of an advance from south to north. It was useless, however, to begin this advance from any points nearer the south wall of the Temenos than those lying on the parallel dividing the vertical series of squares F and E; for the area in the interval had been scooped out by schakhin during the past four years below the original surface of the basal mud. Nor indeed were any but isolated patches of deposit left in the E and D squares.

The men on the extreme right flank of my line found themselves at once upon a broad wall, running north and south, the east face of which could not be clearly determined. A breadth of at least 25 feet was established, but this is by no means the whole dimension. This was unquestionably the eastern wall of the Temenos or Temple; for beyond it (as proved by repeated trials) dedicated sherds were not found, and the deposit seemed to contain only remains of houses. This wall, being based on the mud, belongs to the first construction. Its bricks are 14 inches long, and from 7 to 54 inches broad. To the same period belong all the very scanty remains of walls found up to the parallel dividing E and D. Every later structure has been cleared away by schakhin, and heaps of their refuse lie on the mud; from which some terracotta moulds and several bits of dedicated pottery, including the 'Herodotus' base (Inser. No. 6), were recovered. In a small patch of undisturbed deposit, just west of 66, were found the fragments of the Horsemen Vase (Pl. V. 1) at a height of 10 inches above the basal mud.

The fragmentary range of chambers, next encountered on the north, was embedded in deeper patches of deposit, and the spaces 57, 59, 61, 64 65, are all, in their existing disposition, to be ascribed to the same period as the earlier part of the Aphrodite Shrine, which was uncovered to west of them in 1899, i.e. the earlier part of the fifth century. For a uniform interval of deposit occurs under the lowest courses of their walls, averaging two feet in thickness and containing great quantity of sherds of early local and imported black-figured wares. Not till well above their foundation levels did red-figured ware occur, and then in fair abundance; e.g. the miditional fragments of the 'Στησέχορου' kylix (p. 120) were found in the south doorway of 64 just above the bedded blocks there shown on the plan, which probably underlay a lost threshold stone.

This lowest stratum of deposit and the structural change which took place immediately after the latest period that it represents were seen best in chamber 63, which in its actual form, like all the range in which it occurs (10, 56, 58, 60, 63, 62), belongs to the Ptolemaic reconstruction. Here, after clearing the actual chamber, whose walls were preserved to a height; of

well, which had been left in a depression, was now elevated in a small mound

<sup>&</sup>quot; In the lack of sarviving benchmarks of 1899, the filled in well, marked 35 on the plan, served for a gunds to my former bearings. Se much had the area all about it been worked over again by a habbon, that the month of this

at Except one fragment of concrets paving 2 ft. above the mud level, which belongs to the first reconstruction.

about three feet, and finding in it red-figured ware ranging from the Gracco-Roman period back to the third century R.C., fragments of Hellenistic terracottas and half a plaster antefix mask, we had (as in 1899) to back through some feet 17 of unproductive muldy sand, into which the foundation courses of the Ptolemaic walls were sunk two feet. Under this a stratum of squared stones emerged, so carefully bedded down as to look like a payement, but showing no signs of footwear. Among these were two large fragments of rough stone gutters: several stones concave on one side, which looked like parts of a well-mouth; and the small stela, shown in Fig. 8. This was bedded down face upwards among, and flush with, the other blocks. In treatment it is exactly parallel to the 'Warrior Relief,' found hard by in 1899 (B.S.A. v. Plate IX, and p. 65), and like it, was possibly a painted gravestone. Its mixed Egyptian and Greek style is interesting. Lying immediately under this bedding of stones was an Athenian silver didrachm of the archaic style of the early fifth century, and at precisely their level, but at a spot where the stone stratum failed, was found a terracutta representing the Infant Herakles. Some good red-figured fragments also occurred, at the same level. These stones proved to overlie two feet of early deposit like that observed to south of them-full of early local wares of many varieties, including several white-faced scraps with traces of painted dedications:

We were able both here and in 62 to clear the surface of the basal mod thoroughly, before too much water filtered in: but in 60 and 58 this could not be so satisfactorily done. In 58, however, we succeeded in uncovering a patch of pavement of thin concrete, laid within two inches of the basal mud, and 5 feet 10 inches below the well marked floor level of the Ptolemaic restoration. On the Ptolemaic floor 18 of chamber 10 was much fallen wall-plaster of brilliant bino.

The chamber last named, in which were found several Aphrodite dedications and (beneath the Ptolemaic floor) small terracotta heads of the type discovered so abundantly hard by on the west, seems to have belonged to the Aphrodite Shrine to west of it. The only intelligible desireations (besides those to 'Gods of the Greeks' which occurred in 57 and 63), found in the eastern chambers, were two (in 63 and 62, both in the lower stratum) showing parts of the name Artemis (Inser. No. 8 and another not figured). From so small a number it would be unsafe to name this group the Artemis Shrine, more especially as one terracotta and two heads seem rather to indicate an ascription to Herakles, dedications to whom were found not far off in 1899 (B.S.A. v. p. 32 and Inser. Nos. 3, 33, 84).

This eastern part of the buildings within the Temenos is continuous with the western, and, like it, has been entirely reconstructed in the early Ptolemaic period by builders who first heaped a mound of sand over beddeddown remains of earlier structures, belonging to the early fifth century.

<sup>&</sup>lt;sup>17</sup> This sandy stratum varies from 7 to 2 feet in thickness at different points.

Made of a concrete of line, pounded brick, and pebbles. It was I of an inch thick,

These last had been erected upon remains of still earlier buildings, coeval with the first settlement of Greeks on this northern part of the site, a few traces of whose walls and pavements alone survive. The whole mass of remains belongs to an edifice, contained through all restorations within the same great enclosure walls, and apparently devoted to the worship of several individual gods and the 'Gods of the Greeks' as a whole. This it cannot be doubtful was the Hellenion which Herodotus saw, and in which possibly he dedicated the vase whose base, bearing his name, came to light in 1903 (Inser. No. 6).

D.—Inscriptions (from the Hellenion site unless otherwise stated).



Fig. 2. No. 1. Tois Θ(ε)οίς [τῶν Εκλη-POP HN HE W VERNEY.

- 2 ... ανε θε θεοί ς των Ελλήνων.
- 3 .... Hears Tow Examples.
- ± .... θεοῖς τῶν Έ]λλήνων. 5. Θεοῖς τῶν Έλλήν]ων Ἡρόδο[τος? (Not from Hellenion)
- B. H[po]corov.

```
7. ... 18 Hpn[e]: from untouched earth immediately
       S.W. of Mr. Petrie's "Hementm."

    ανέθηκ [εν 'Αρτέ] μιδι | The order of the words

       strongly favours the restoration of the name as
        Artemia
 9. 'Αφρο δέτη 1].
10. Αφροδί]τη[ι].
11. Αφ ροδίτηι
12 .... ς Αφ μοοίτηι.
13 Αφροίδιτηι.
14. Αφροδ [τη [ ]
15. "Hρακ [λ]*(ι)τος "Aφ[ροδί]τη[ι].
16. Τελέσων Ρόδιος 'Αφρο[δίτηι.
17. Zwika & u avetyke. (Painted.)
18 .... Με]λησίο(ν). (Not from Hellenion.)
19. Μιλη σίο(ν) θ εοίς κ.τ.λ.
20. . . . os Enarlaiou
21.
22 .... evva aveth Ke.
     Women's dedications are very rare.
23. Εύθέτο(ν)
240 1
25. 7

 Δη μητρίο(υ).

27..... Na |υκρα[τίτης ? (Not from Hellenion.)
28. "Ερμο(v) έμ[ε ἀνέθηκεν. (Painted.)
29. Timo[ spárns? (Not from Hellenion.)
30. Ευφάντο(v).
31. EpuoBios.
32. Kouaioc. (Only known as a surname of Apollo.)

 Πύθω[ν. (Not from Hellenion.)

    Αγήσιππος.
   Huxres?
34. 1 Eu | δημίη Ε[ . . . . Αθη | vain[ ] 1
35. Complete. Aakpros & l cf. Nauk. ii. No. 819.
36. 3
37.
38. Cypriote. mo-ta-to-? Cf. B.S.A. v. No. 114 and Nauk.
       ii. No. 864.
39. 1 Don Jace's. Cf. Nauk. i. No. 666. (Not from
```

This is a selection, mainly from the Hellenion site, where dedicated

M]ντιλ[ήναιος. (Not from Hellenion.)

style.

Hellenion.) On a fragment of b.f. kylix in finest

sherds have most significance. About forty other inscribed sherds were found, many of them being scraps with only a letter or two. These it is not worth while to publish; but I may mention that four, obtained from children who raked over the rubbish heaps in the centre of the site about the Temenos of Apollo, contained part of dedications to that god. An amphora neck with a single Phoenician character, Shin, painted on it was found in the Hellenion. Two fragments of inscribed marble were brought to me. They read :

(a) White marble, extreme length 152, (b) Coarse marble, broken on all sides. Lettering of third century B.c.

Ullillian ANAFRAGHN TONTAMIANT

INF NEIN

An ostrakon was sold me on the site, but I suspect it was imported from elsewhere. It is broken on all sides. It reads:

> EYPEONH *AENOBAABECTW* PYMBEKA. ONTER

> > D. G. H.

E.-POTTERY.

(By Miss H. L. Lorimer.)

[PLATES V.-VII.]

THE excavations recently conducted at Nankratis have yielded nothing in the way of pottery that is, strictly speaking, new; considering the immense quantities of sherds found in the course of the earlier diggings, it would have been surprising if they had. None the less the fresh finds deserve mention, and that on several grounds. Recent discoveries in other quarters have shed light on the origin of some of the fabrics in question; and though these results are generally known, it is worth while to resume them in an account of what seems likely to be the last excavation of Naukratis. The discovery of late Attic r.f. ware in relatively large quantities, and the consequent possibility of dating with some precision the instructive gap in the series of Attic imports, are new facts, and have their bearing on the political history of the town. Finally, some few of the fragments are of sufficient beauty or interest to deserve publication on their own merits.

The first steps towards dividing out the manifold fabrics of Naukratia among the various elements of its population were taken by Dr. Boehlau in his book Aus Ionischen und Italischen Nekropolen. The 'Rhodian' ware of Naukratis he claims on convincing grounds for Miletus, dividing it into an earlier style which does not employ incised lines, and a later, which combines incised with unincised zones of decoration. The excavations in Sames which form the starting point of his treatise have put beyond all doubt the Samian origin of the Fikelhura fabric abundantly found at Naukratis and elsewhere. Of the mixed multitude, therefore, that inhabited the Graeco-Egyptian town, Milesians and Samians have come by their own. Simultaneously with the appearance of Dr. Boehlau's book Dr. Zahn published a couple of vase fragments from Klazomenai and pointed out their close resemblance to the later type of pottery from Tell Defenneh. Dummler had aiready drawn attention to the affinity of this latter fabric with the Klazomenian Sarcophagi, which are in all probability of somewhat later date: Zahn's shords, which he considers to be contemporaneous with the Defennels ware, supply several fresh points of contact. Among the most important characteristics common to the two styles are :- (1) the practice of painting in white immediately on the clay ground, and then surrounding the white wash with a brown outline, at least where precision of form was desired, as in the case of the human face, (2) the rendering of inner markings by the same brown paint on white and by incised lines on black paint, (3) the frequent use of rows of white dots, generally between two incised lines, by way of ornament, (4) the form of the horses and their ornamental harness. The Klazomenian fragments also belonged to a vessel, or vessels, of the hydria type common at Tell Defennela.

It may, therefore, be regarded as fairly certain that the Defennels ware is Klazomenian, probably imported, as Zahn holds, from the mother city. The first excavations at Naukratis yielded some fragments of this ware, but so few that both Professor Petrie and Dümmler regarded them as imports from Tell Defenneh, then generally taken to be the home of the fabric. Numerous sherds were obtained in the last diggings, and must be connected with the Klazomenian element resident in Naukratis. But as they agree minutely with the Defennels ware, it is more probable that they too were imported than manufactured locally. It is true that not more than one or two fragments from Naukratis exhibit the elaborate technique of the best Defenneli ware, with its curious combination of outline, silhouette, and incising, B 102, 28 in the British Museum, on which are preserved parts of the figures of a hoplite and archer, is the best example of this style, which is only employed for careful and highly finished work. The large majority are of the inferior type also abundantly represented at Tell Defenneli, which has abandoned the painted outline and employs white more sparingly, incises inner markings on black and white paint alike, and not infrequently makes an incised outline round the entire silhouette. It retains, however, the

ornamental rows of white dots, the horse-trappings and saddle-cloths, and the type of male head with the great spreading beard characteristic of the more elaborate vases. No distinction can be drawn between the Naukratite and Defenneh specimens of this ware.8 The clay is grayish, as is also the case with Zahn's Klazomenian fragments, differing from the warm reddish colour of the best Defennell vases.

Several of the fragments now in the Ashmolean Museum come from the shoulders of hydriae, and shew the method of construction in an interesting way. The neck, which joins the shoulder at an angle, was made in a separate piece and inserted in the body, the junction being covered by a clay fillet which was afterwards painted red. The same process was used in the case of the fragment in the British Museum 128, 1, which comes from Tell Defenneh and belongs to the inferior class of ware; the larger and finer Defenneh vases were made all in one piece, and the clay fillet which is characteristic of the whole series is merely ornamental.

How much farther the process of parcelling out the motley fabrics of Naukratis among her equally motley population may in the future be carried.

it is of course impossible to predict.

Among the Attic b. f. fragments pieces of good early style are not wanting: ware of the Kleinmeister type however predominates, as in the case of the first excavations. But the trade relations of Athens and Naukratis, which must have lasted through a considerable period, were suddenly broken off. The total number of r. f. fragments of the severe period which the site of the latter town has yielded is exceedingly small, and those belonging to the Epictetic circle do not number more than two or three. Of those of severe style in the Ashmolean several seem to belong to a single vessel, the Στησίχορον kylix in the style of Douris, a fragment of which was published in the Annual of the British School, vol. v. One of the more recently found pieces fits on to this fragment, which is therefore reproduced with this addition (Pl. VI.5). Late r. f. ware on the other hand is abundant : there are some fine pieces, but most of it is of very inferior quality. Pieces of the still later stamped black ware were also found.

The event which broke off intercourse between Athens and Naukratis towards the end of the b. f. period, but before the new style had appeared, can have been no other than the invasion of Egypt by Kambyses; and the subsequent troubles of Athens herself may well have prevented the resump-

tion of relations until the best days of the severe period were over.

The most interesting of the new fragments is that reproduced on Plate V. 1. It appears to be the wide funnel-shaped mouth of a bowl similar to Nos. I and 3 on Plate X of Nankmtis, Pt. I, and is light and thin for its size. The clay was first covered with black glaze, and the field was then divided into panels by vertical lines of white and red paint enclosing a white zigzag line and dots. In each panel was painted in white the figure of a

Endt's statement (Low, Fascamulares, p. 13) that incised outlines do not occur on the Defannsh ware is incorrect.

man on horseback armed with a spear. The inner markings were put in with red paint and the whole background was washed over with the same colour: but to avoid coming in contact with the very absorbent white, the artist left a broad black margin round the figures. Groups of white dots were painted on the red background, and under the horses there are remains of a vegetable ornament, also in white. The division of the field vertically in the geometric manner is exceptional at Naukratis. This piece, both by the colouring employed and by the lightness of the fabric, recalls across an interval of many centuries the 'Kamares' ware of Crete, as does also, with curious fidelity, the polychrome internal ornament of the commonest early native painted ware of Naukratis. The resemblances may be accidental, but they are noteworthy when the singularity of the Cretan fabric is considered.

Of the remaining fragments the most noteworthy are the following :-

Plate VI. I: fragment covered with cream glaze: head in purple paint: inner markings given by reserved lines so fine as almost to produce the effect of incising. The head wears a close-fitting cap surmounted by a snake: a cloth hangs from the cap behind. On the famous Caeretan hydria at Vienna (Furtwaengler und Reichhold, Vascamalerei, Pl. II) Busiris wears a very similar cap, undoubtedly intended, as Furtwaengler points out, to represent the urneus head-dress of an Egyptian king. The present instance is a more faithful representation, for it preserves the hanging cloth, which is omitted on the hydria. This fragment may well belong to a scene from the Busiris myth. The way in which the cloth flies out behind suggests that the figure was in violent action.

Plate VI. 2. Fragment of unglazed clay: two figures and part of a third forming a procession. The first (fragmentary) carries a thyrsus with a ribbon attached; the second, a vase and wreath; the third, a thyrsus and what seems to be a wreath. The two complete figures also wear wreaths.

Plate V. 2. Shoulder of hydria of Defenneli type: three male heads.

Plate V. 3. Fragment of a flat plate decorated with zones of animals. The only complete animal resembles a jackal, and is represented in the act of turning, with a degree of realism very unusual in so conventional a scheme of ornament.

Plate VI. 3. Ware of Defenueh type. Satyr of Ionic type, playing double flute.

Plate VII. 1. Fragment found in the Hellenion; hawk perched on top of column or corner of building. Cf. Tanis, Part II., Pl. XXV, 1.

Plate VII. 2. Severe r. f. style: head of Dionysus, wreathed and slightly bearded: leopard on shoulder. In the field  $\leq \frac{1}{5}$  (i.e. some such name as  $[A\lambda]e\xi\iota_5$ ) and vine leaf.

Plate VII 3, 4, 5. Severe r. f. style: the first two in all probability belong to the 'Στησίχορον' kylix (cf. Fig. 6 infr.) and the third closely resembles them both in style and in the thickness of the clay.

Plate VII. 6. A beautiful specimen of fine r. f. style: warrior with spear: inscription IOAEO5: palmette ornament.

Plate VI. 4. Fragment of a white kylix in the style of Euphronies, represents the combat of Hernkles and Apollo over the tripod. Portions of this kylix were found in the earlier diggings and are now in the British Museum (v. Hartwig, Meisterschalen, Pl. L). The new fragment was bought on the site by Dr. von Bissing (to whom thanks are due for a drawing from which the illustration in the text was made) and presented by him to the Museum at Munich; the British Museum has since acquired it by exchange.

Plate VI. 5. The 'Στησίχορου' fragment with the addition of the new pieces.

H. L. L.

### F.-ACTUAL STATE OF THE SITE

I HAVE implied that I consider the site of Naukratis to be now exhausted. This statement refers to the uncultivated part of it, the "Mounds" proper, all whose superficial rubbish heaps I have had raked over repeatedly. There also I have cleared out all ancient wells I could find; but in 1903 I got nothing from any of these, beside rough pottery, except a seated phallic terracotta, headless, and two stone horses and a stone 'sphinx' figure. The original town undoubtedly extended slightly to north and east of the limits of the netual Kum, and I do not say that in the course of agricultural operations objects may not yet come to light, just as did the Nectanebo stela in 1809. But in this small extent of irrigated land very little can be expected to have survived. As for the Kum itself, I have satisfied myself that the deep temple areas are now all explored, and the shallower mounds to north-east, south-east, and west contain domestic remains very scanty in quantity and poor in quality. I also sank trial pits in both the hamlets which adjoin the site on the north, immediately contiguous with the north-west corner of the Mounds seems to be built on an empty stratum of muddy sand some twelve feet thick; and so also, in spite of Mr. Gardner's observations (Nauk, ii. p. 11), did I find the second hamlet to be (er-Rashowan). My pits on the edges of its mound wentdown into masses of broken pottery and rubbish of all sorts, evidently ancient rafuse heaps; my pits in its central part penetrated the same muddy sand as in the other hamiet without revealing the vestige of a burial. Both this mound and that on which the hamlet south of it stands seem to me to be remains of the same old canal or river embaukment, which crops up again under another hamlet further to north-west. I strongly suspect that the Nile flowed in antiquity past Nekrash and down the east face of Kum Gayif, crossing the eastern part of the area supposed to be a great Temenos by Mr. Petrie, wherein war the bank stood the Nectanebo stela. Thereafter it

swept round the northern end of the mounds, past the Hellenian and between the two nearest northern hamlets, and so went away north-westward, leaving on its right bank the modern Ezbet er-Rashowan.

D. G. H.

### G.-MINOR ANTIQUITIES.

(By C. C. Edgar.)

Mr. Hogarth's last brief campaign at Kum Gayif was as fruitful as the former excavations in small autiquities of various kinds, corresponding to the variety of nationalities in the ancient town. Many of them were found in the trenches and wells—in which case they could mostly be dated approximately by external evidence—but the greater part, as usual, came from the small private hoards of the sbakk-diggers. The painted vase-fragments have been studied by Miss Lorimer. I shall add a few remarks on some of the other objects, more especially on those which were taken as toll by the Cairo Museum and which I can describe from direct observation.

# 1.—Unpainted Pottery.

In Tanis, Vol. ii. Pls. 33-36, Mr. Petrie has published a large number of vases from the Stratopeda, partly Greek, partly Egyptian, and partly hybrid. The pottery illustrated below is of the same mixed character.

Fig. 3 shows a group of more or less complete vases from a well which Mr. Hogarth excavated in 1899. The two short-necked amphorae in the back row belong to a type which is characteristic of the Phoenician sphere of influence. It was in vessels of this form that the wine of Phoenicia was imported into Egypt, and that the water of the Nile travelled out in turn into the desert : ούτω ὁ ἐπιφοιτέων κέραμος καὶ ἐξαιρεόμενος ἐν Λίγυπτω έπι του παλαιου κομίζεται ές Συρίην. Some of those which are found in Egypt have Phoenician inscriptions on them. The one to the left in the illustration has three large letters painted in red on one side, but in this case they are Greek. The four larger jugs in the second row are typically Egyptian; note the rude Bes-head on one of the middle ones. The two smaller jugs are more Greek in style, though a similar form is found elsewhere in Egypt (e.g. Cairo Mus., Cat. Gén., No. 3031). As regards the date of this group it should be noted that the well in which they were found was faced with bricks, whereas the wells containing archaic Greek pottery were lined with large cylindrical tiles (much like the Mycenaean well at Phylakopi). Freiherr von Bissing, one of the few archaeologists who have studied the whole history of Egyptian pottery, tells me that in his opinion the mative vases in the above group are not earlier than Cambyses, and



F)6. 2



probably not later than Alexander. The form of the large amphora points to the same period.

The contents of another well, excavated in 1903, are shown under. Fig. 4. Nos. 1 and 3 are native types. Nos. 4 and 6 are typically Greek, but are made of ordinary Egyptian clay without any decoration. No. 5 is a black-glazed Greek vase. No. 7 on the other hand has a polished red surface. This well also seems not to have belonged to the pre-Persian town. It probably dates from the fifth century.

The next group, Fig. 5, comprises a few entire pots which were found in the neighbourhood of the supposed north-west corner of the Great



Fro. 5. (Scale 2 - 11.) No. 1 bas had a hundle, attached vertically

Temenos wall (see Mr. Hogarth's article, p. 110 f.). They may range from the seventh to the fifth century, but most of them are probably nearer the earlier limit: the few painted fragments which were got from the same trenches belonged to this period. They are made of ordinary red Egyptian clay, except No. 2, which is of light-coloured ware and is decorated with brown zones round the shoulder: this, as I learn from von Bissing, is a later Saitic type of vase. Nos. 1 and 3 may be compared with Tanis, ii. Pl. XXXV, Nos. 41 and 43. A vessel similar to No. 4 was found by Mr. Petrie at a level corresponding to the first half of the fifth century (Nankralis, i. p. 22). No. 5 has an inward-projecting rim, a ledge-handle on the inside, and a round hole, the purpose of which is not clear, on the opposite side rather low down (cf. Naukr. i. p. 42 and Tanis, ii. Pl. XXXIV, No. 26). All these vessels are Egyptian. The large amphora (Fig. 6) on the other hand is a foreign type and was probably not made in

Egypt. The handles are flat. There are remains of letters on the shoulder in broad red lines, apparently Greek. This is another specimen of the vessels in which wine was imported into Egypt from the Aegean and the Orient. A third type, common in Cyprus as well as at Naukratis, will be found figured in Tanis, ii. Pl. XXXIII. No. 6.



Fro. 6. (Scale 2 : 11.)

Fro. 7. (Senio 2 : 11.)

The two vases shown in Fig. 7 come from the neighbourhood of the Hellenion. The askas, which has a ring-foot, is made of light-coloured clay. The other is of ordinary Egyptian ware; it has a flat top with a small hole in the middle, and tapers to a pointed base.

# 2 -Sanlpture.

The little relief figured below (Fig. 8) was the largest piece of sculpture found in the last excavation. It is a rectangular block of limestone,  $32 \times 28$  cm., with roughly flattened back. Its original destination is uncertain. Whatever it may have been intended for, it had afterwards been taken and used in the construction of what was probably a small shrine in the Hellenion. The few vase-fragments found below the floor of this building were all early, none being later than the sixth century; those above the floor included some pieces of red-figured Attic ware.

In one respect the work is akin to Egyptian art. Fat men with walkingstaffs were a favourite subject in Egypt, the most famous being the so-called Sheikh el Belei in the Cairo Museum. On the other hand the style is not at all Egyptian: the pase is archaic Greek and the body is rendered in comparatively correct profile. As the surface is worn a good deal, especially about the head, the details are rather obscure. He seems to have worn a short garment, but it is difficult to make out. The figure is in low flat relief with rounded edges. Another limestone relief from Naukratis representing a warrior with shield and spear, which was found in 1890 and which, like the present work, seems to have been used in the construction of a shrine in the Hellenion, is still flatter and has much sharper, square-cut edges. I thought at the time that it was a finished work of peculiar style, but this seems to me now less probable. The nearest parallel that I know of is a relief of a winged Egyptian goddess—equally flat and with still sharper edges—which was found along with some models and moulds from a sculptor's atelier at Memphis, and is in all probability an unfinished study. Possibly the warrior relief is the same sort of thing.



PHL 4 (Scale 1 : 4.)

Among the minor stone objects which are characteristic of the site, one of the most common is a representation of a naked woman lying on a bed, perfectly stiff and straight, with a child at right angles to her feet. The child is sometimes omitted. The woman usually lies on her left side with her left arm across her waist, sometimes on her back with her arms by her sides. The coiffure is always Egyptian, and indeed the whole figure is Egyptian work of a low class. Mattress and pillow are sometimes indicated, but more often left to the imagination. For specimens of the different varieties I refer the reader to Nankr. i. Pl. 10 and B.S.A. vol. v. Pl. XIV.

B.S. d. vol. v. Pl. IX.

<sup>&</sup>lt;sup>2</sup> In the Carro Museum: Cainloyne Géneral, No. 33413. Here and there in Egyptian tombs.

and temples one finds imperfectly finished reliefs of similar appearance, e.g. in the mastalm of Ptabliotep at Sakkars.

Mr. Hogarth's excavation produced the usual crop of these figures, some of

which were found by him in the trenches.

Statuettes of the same type, some of them much more elaborately sculptured than the Naukratite examples, are fairly common in Egypt. Several are said to have been found in tombs, and it was perhaps for the requirements of the dead that the type was first invented. To place a statuette of this sort in the tomb of a dead relative was symbolic of providing him with a wife for the other world-a less barbarous form of piety than killing his widow. The marble idols which are found so frequently in the cist-tombs of the Cyclades are good examples of the same practice. With regard to the Egyptian statuettes M. Mallet, together with M. Maspero,2 has proposed a further explanation. As in Egypt the dead man was identified with Osiris, the appropriate consort for him would be a corresponding embodiment of Isis. M. Mallet thinks therefore that these small naked figures represented Isis rather than a mere human being. A point in favour of this view is that one or two of them wear the uraeus-circlet appropriate to queens and goddesses. The whole subject, however, needs closer study on the part of Egyptologists. One would like more evidence and information about their use as burial offerings.

One finds at Naukratis another class of naked female figures, carved in exactly the same style as the above-mentioned; a specimen from the recent



Fra. 8a.

excavation is shown in the accompanying illustration (Fig. 8a; see also Naukr. i. Pl. XIX.) These figures are usually known by the name of Banbo. Banbo, according to the Orphic hymn, was the hostess of Demeter at Eleusis, and tried to amuse her guest by the same sort of gesture which the women of Egypt are said to have used on their way to the great festival at Boubastis. M. Mallet believes that the limestone statuettes really refer to this legend, and that the type was introduced into Egypt by the Greeks of Naukratis. But it is very doubtful whether there is any connexion between the Naukratite figures and this

particular Greek myth. More probably the 'Baubos' had the same general significance as the other group of female figures, expressed in a still cruder image. We cannot say whether they (or the other type either) were used as burial offerings, as the necropolis of the period to which they belong has not yet been discovered. But as so many specimens of both types

Mallet, Les premiers dublissements. Maspero, Outde le Cairo Mes. (Eng. ed.), p. 296. Just lately thorn has come into the Museum from Memphis a figure of this sort holding a small Apis against her bosom.

<sup>\*</sup> Herodetts ii. 60, at 54 degréporrez descrinera. There are many Omeco-Egyptian terrecottas in which this action is represented, but the figures which are commonly identified with Baubo are undraped.

have been found scattered about the town (apparently not on the sacred sites), they at least seem to have been in request among the living inhabitants. It is very possible that they were regarded as charms, as indeed they are at the present day.

Except in a very few cases Mr. Petrie found no evidence for the dating of these statuettes. They seemed to him to belong to the sixth, fifth, and fourth centuries: one extremely rude figure he assigned to the end of the fifth. The recent excavations have thrown a little more light on this point. The 'Baubo' figured above was found in undisturbed ground near the supposed N.W. corner of the 'Great Temenos' in a distinctly early patch, most of its contents that could be dated belonging to the sixth century. In a neighbouring trench one or two of the 'child-birth' figures were obtained amid similar deposit. They may have gone on being manufactured for a long time without undergoing much change in style, but at any rate there is little doubt that they were common and popular in the sixth century B.C. In M. Mallet's opinion the 'child-birth' figures are in all probability Greek imitations of Egyptian types. It is possible that the individual workmen may have been Greek, or partly Greek, by birth. But however rude the style may be, it remains essentially Egyptian: several of the 'childbirth' statuettes from other parts of Egypt are rendered with an equal degree of carelessness, and one finds a similar type of head on some other minor Egyptian works. The 'Baubos' too are of the same character.

The small 'horsemen,' of which sufficient specimens have been already published (Naukr, i. Pl. 19 and B.S.A. vol. v. Pl. XIV), were no doubt made in the same workshops as the female figures. Mr. Petrie found one at Defenneh which he dated to the seventh century (Tanis, ii. p. 71): there is at least good reason for putting it before the middle of the sixth. One of those from Naukratis has a Greek inscription on one side which is probably a good deal later than this (B.S.A. vol. v. Pl. IV, No. 58), but no doubt the manufacture of them lasted over a long period. The type in this case is certainly a foreign one. It is to be compared with the terracotta cavaliers of the archaic period, especially those from Cyprus. There are in Cairo certain terracottas from the neighbourhood of Boubastis representing mounted warriors with sharp-crested beadgear and Asiatic beards. There is also in the same Museum a small four-horse chariot in limestone, done to exactly the same style as the Naukratite horsemen, and very possibly a Nankratite work: here again we are reminded of those Cypriste and Phoenician terracottas in which the same subject is represented. I may also call attention to another work of similar foreign character, a little limestone group of a bearded man and a youth reclining at table: it comes

The riders are not always so incongruously small as on the published examples. On Gracco-Egyptum terracettus the child Harpokrates is attent supresented on horseback, but I do not think the small Naukratite cavallers were intended, at least originally, as images of Har-

pokrates. I regard them rather as local, semi-Egyptian reproductions of an imported type, like the chariotect mentioned in the text.

I have lately seen fragments of exactly similar figures at Kirm Gayif, and the same type occurs at Memphis and Boute.

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from Sais and has been published by M. Daressy in the Annales du Service, vol ii. Pl. II. The small head published below, Fig. 0, is superior in style to the works just cited and is probably an imported object from Cyprus: it has been part of a limestone statuette. It would be interesting to collect all the traces of Cypriote and Phoenician activity in Egypt. the part played by Cyprus in the development of Nankratis was very important.

Another group of limestone objects, very characteristic of Naukratis, consists of small phallic figures. These are probably in great part of the same age as the preceding types. A terracotta specimen was obtained along with the archaic horsemen from Boubastis mentioned above. They are often represented playing on some musical instrument, and some of them wear the side-lock of childhood. There is no reason for thinking that the type







Fro. 10. (Scale 5 : 4).

was introduced into Naukratis from Greece. The style, such as it is, is Egyptian. In Leemann's Acy. Monumenten, vol. i. Pl. XVIII., illustrations are given of a number of phallic figurines of which No. 1466 is very like the Naukratis group which I speak of. The site, however, has produced

popeover sura expar yvenker, revor ra alfoire, of works ten transporter to the Street adjuster monyferm de midde al de experts delboorns the American, There is a large terracetta of Egyptian style in the Calto Museum (belonging to a group mentioned later on) which represents a procession of this mut! this chief personage holds a musical instrument and his phalles is supported by four women.

In this connexion it is worth unting that many of the later terresotta images of Harpokrates have a phullic character. The intrusion of this element into the oult of the child-god has not yet been traced or explained,

The Naukratite ligures are to some extent illustrative of a pessage in Herodotna, ii. 45: ner be golder than up. fort eferpensen, Loca τε πυχικία άγάλματα νευρόσπαστα, τὰ περι-

a great quantity of indecent statuettes of various ages and in various materials.

Fig. 10 is a small plaster model of an Egyptian king's head which I picked up on a visit to Naukratis in 1901. Similar models are common enough in Egypt, and several others have been found at Kum Gayif? This one, however, is particularly interesting. Unlike most of the others it shows the upper part of the royal hood with the umeus in front. While the face is practically finished, the ears and uracus are merely roughed out. It is evidently a cast, made in a single, open-backed mould; and the state of the unfinished parts shows that it has been taken from one of those soft limestone models which one sees in Egyptian collections, and which usually have incised squares and measurements on the flat surfaces. I have tried to show in another place of that, notwithstanding the common opinion championed by M. Perrot, these squares are simply an application of the Egyptian canon of proportions, or rather of the later canon which came into use in the Saitic period. According to a credible tradition some of the early Ionian sculptors studied this canon in Egypt and introduced a similar method of work into the Aegean. One cannot say, however, whether it was in Naukratis itself that they saw the system employed by Egyptian workmen, for the plaster models found there are perhaps all later than their time.

### 3. Terracottas and Moulds.

The last excavation produced nothing so good as the group of female busts which were found in 1899 in the neighbourhood of the shrine of Aphrodite in the Hellenion. Of the ordinary archaic Greek types we obtained almost nothing except a fragment of a female figure holding a dove against her bosom in her left hund. Some interesting though far from beautiful fragments were found in one of the trenches pear the north side of the 'Great Temenos. On the evidence of stratification-especially of some Greek pottery which was found close by-they may be dated to the sixth century B.C. Three of these fragments (from three different figures) are reproduced below (Fig. 11). They belong to rather large statuettes of coarse fabric, made solid, with flat backs. The largest piece is part of a naked female figure. The head is remarkable for the way in which the lips are stuck on, while another head from the same find has the hair represented by small impressed circles The latter occuliarity I have noticed on several terracottas from Memphis and Boubastis which are likewise made solid, but whether these have any direct connexion with the present group I cannot as yet say for certain Some of them are distinctly Egyptian, and it need not be supposed that the Naukratis fragments are Greek work.

From the Hellenion area came some fragments of a fairly large figure of good Greek style representing the infant Herakles strangling the serpents.

<sup>&</sup>lt;sup>7</sup> Nonkentin, i. Pl. 17, No. 2. An 'archaic hand of bard limestone' repositiond in Naukr. ii. Pl. 17, No. 18, looks like another of these

modals

<sup>\*</sup> Record de Trevaux, forthcoming number.

We obtained the usual number of Hellenistic female heads like those of the Tanagra statuettes. Many of these were certainly made in Egypt, as could be seen from the clay, and no doubt there was a manufactory of them in Naukratis itself. The Satyr on the wine-skin in the Cairo Museum—one of the very finest of Hellenistic terracottas—is said by M. Maspero to have been found near Kum Gayif and is very probably therefore a Naukratite work. As regards the later types, the ordinary statuettes of the Roman period, it is sufficient to say that they are as plentiful in Naukratis as in other Egyptian towns. The only one I need mention is a fragment of an irrigation scene representing a man working the Archimedean screw.



FILL II

That terracottas were made at Naukratis is proved beyond doubt by the moulds which Mr. Hogarth found there. They came from the top rubbish at the N.E. end of the site. One of the best of them, now in Cairo, is reproduced in Fig. 12. Like all the others it is made of ordinary Egyptian terracotta. The outside is roughly smoothed down. The right side of the mould is broken. As can be seen from the photograph, the subject is a female figure of Hellenistic style (like some of those from Tanagra) with a mantle draped across the front of her body. Head and hands have been made separately: the face at least would probably be done in a mould. The back was, no doubt, more or less plain, perhaps a mere rough wall made by hand. The edges of the mould are quite sharp: it is evidently not part of a piece-mould.

Guids to the Unive Museum, 1993, p. 354. Bulletin as la Soc. arch. a' Alexandric, No. 7.
 For a complete example of this type see p. 44.

In material and technique Fig. 12 belongs to the ordinary type of mould used in Greek countries for the fabrication of terracottas. There are many similar specimens from Greece, Asia Minor, and Sicily, and a few others from Egypt. Where this type of mould was used, if a figure had to be made in several sections, each section was pressed in a single separate mould, and the parts were afterwards joined together by hand. But most of the moulds for terrocottas found in Egypt are of a different type from this." They are piece-moulds, usually of two parts, and the edges of the sections are fitted together by mortises and tenons; probably the two parts of the terracotta were first attached to each other by the two sections of the mould being pressed together, the junction being afterwards completed by hand. Another peculiarity is that they are for the most part made of plaster instead of terracotta. The ordinary Graeco-Egyptian terracottas of the Roman



Fig. 12

period were made in moulds of this form, whether of clay or of plaster. At



Fig. 18,

D Catalogue General du Mus. du Caire : Grait Moulds, p. xiii ; Ferreichnus der Asg. Alterthuar (Berlin), p. 373.

what date the type was introduced we cannot say, but it seems probable that the ordinary Greek type, such as we find at Naukratis, was still in

common use in the Hellenistic period.15

The best of the other moulds found by Mr. Hogarth was a large negro's face, now in the Ashmolean Museum: Fig. 13 represents a cast from it. It had broader edges than Fig. 12, but was not part of a piece-mould proper. Another complete specimen, left in Cairo, consisted of the front part of a bull's head with a sort of rosette above the forehead. In technique it is similar to Fig. 12.

## 4.—Miscellaneous Objects.

Very little bronze was found in the last campaign. The best piece, very good of its kind, was a small Egyptian figure of Bes playing the lyre : it is now in Cairo. The scarabs were chiefly of the local blue-glazed faience, and terracotta moulds for shaping the backs of them were still to be picked up in abundance from the rubbish heaps near the scarab factory. One of the trenches at the South end of the site produced a great quantity of small faience objects of the Saitic period, but they were much injured by the dampness of the soil and comparatively few were worth keeping. Most of them were small figurines of well-known types—sows, Thoueris, the god Shu, etc. No doubt they were made in the local factory. Among the faience objects from other parts of the site I may mention a fragment representing the forepart of a lion with open mouth; the tongue had been coloured red; the ears were of the schematic Egyptian type. Parts of little figures like Naukr. i. Pl. 2, Nos. 10, 17 were also found. New Year bottles with necks in the form of lotus and papyrus were represented by numerous fragments.13 I also noticed one or two fragmentary specimens of hedgehog-vases. H Mr. Petrie considers that the factory had passed into Greek hands before the accession of Amasis. No doubt a fabric in such a place as Naukratis would be specially subject to foreign influence, and it is very possible that some of the strangers, whether Ionian or Cypriote or Phoenician, took up the manufacture. But if so, they must for the most part have confined themselves to reproducing the Egyptian types, for after all the number of faience objects of un-Egyptian appearance found at Naukratis is very small compared with those that are entirely Egyptian. I am referring of course to the early period only. Of later genuinely Greek work in the same material a great many fragments have been discovered on the site, as for instance pieces of vases with female figures in relief; it is very probable that there was a fabric there in the Ptolemaic period. The finest Greek work in blue glaze that I know of is a

other way about. I hope to return to the questions about the bronzes some other time.

Pernice, Jahresheffe, 1904, p. 154, gives some interesting information and suggestions about the sort of moulds used in making Genek bronzes. It is very possible that the methods of the coroglashus were in various centres infigured by these of the trenze-makers or the

<sup>&</sup>lt;sup>18</sup> Of Rissing, Fayouroufdise (Cairo Catalogue), p. xv.

H Cf. op. off. p. xxv.

head from Naukratis in the British Museum, the portrait of a Ptolemaic

queen (Naukr. ii. Pl. 17, No. 11).

The small object figured below (Fig. 14) seems to be a comb of limestone with a handle in the form of a human head. It came from the schakhta and was presumably found on the site. It has an odd resemblance to certain combs and pin-heads of bone, ivory, and stone from the prehistoric finds in upper Egypt (cf. Naqada and Ballas, Pl. LIX).



Fm. 141

### 5. Conclusions.

The antiquities of which I have given the above desultory description do not by themselves throw any new light on the early history of Naukratis.

The finds at the South end of the site consisted for the most part of Egyptian material, such as faience objects and native pottery (see Mr. Hogarth's remarks above, p. 107). Several fragments of imported amphorae like Fig. 4 were found, but of painted Greek pottery there was scarcely anything. This confirms our previous belief that in early times the South end was the more Egyptian part of the town. It is also a minor argument against the view that the 'Great Temenos' is to be identified with the Hellenion.

The area at the North end, where we have placed the Hellenion, chiefly on the ground of so many inscriptions to the 'Gods of the Hellenes' having been found there, has now been tested to the bottom level wherever it was practicable. The antiquities from this area are almost all Greek, including a

great deal of sixth century pottery.

Professor Petrie's work at Naukratis proved beyond doubt that the site was inhabited long before the time of Amasis. But even in the seventh century the town was not a purely Greek settlement. It was at least partly Egyptian. Native artisans worked and lived there. That the Cypriotes had a footing in the place from a very early period is almost certain. The engraved tridaena shells, which are found scattered along the routes of Phoenician trade and of which so many specimens come from Naukratis, indicate that the Phoenicians too had a direct or indirect connexion with the town: it may have been at one period a port of call for Phoenician ships.

Unless the testimony of Herodotus is entirely baseless (which probably no one will maintain), the town suffered a great reorganization and extension under Amasis. According to Herodotus it was that king who gave the Greek traders sites for building altars and temene, of which the largest was the Hellenian. The main questions still in dispute (from the archaeological point of view) are whether any of the temples were founded before the time of Amasis and whether the antiquities from them, particularly the inscribed and painted pottery, are in part earlier than 570 n.c. Endt, Ionische Vascamalerei, p. 68, adopting the conclusions of Hirschfeld without question-

ing, accepts this late date for the Naukratite pottery. When writing of the finds from the 1899 excavation I expressed a somewhat similar opinion (B.S.A. vol. v). The excavations of Boehlan in Samos have shown that some early Ionian types were still popular in the second half of the sixth century. Still, if the dates which are generally accepted by archaeologists about early Greek pottery are right, it seems very doubtful whether all the fragments from the Naukratis temples can be as late as 570. As the literary evidence is not in itself decisive, there is at least a probability that some of the temples, especially that of the Milesian Apollo, date from the earlier days of the town. But most likely the Hellenion was a later foundation: its situation is less central and the finds from it are less archaic. One may reasonably suppose that this, the largest and most famous of the Greek temens, was built when the town was resettled by Amasis and that from this period dates the importance of the nine combined states,—of one of which, it must be remembered. Herodotus was a citizen.

C. C. E.

Cairo, 1904.

<sup>&</sup>lt;sup>15</sup> The same paragraph contains some curious information about the founding of Duphmac (p. 69).

#### THE GREEK WARSHIP.

L

The controversy as to the arrangement of the oars in ancient warships has been, in one aspect and with the due exceptions, a controversy between the scholars and the sailors, in which, while the sailors cannot well be wrong on their own ground, the same impossibility hardly applies to their opponents. When the practical seaman points out that superposed banks of oars, in the accepted sense, are a frank impossibility, it is hardly a conclusive reply to tell him that his acquaintance with the authorities leaves something to be desired. It follows, that for anyone who, like the present writer, is convinced that the sailors are right, the real interest of the question is this: does the evidence compelme, or even invite me, to believe in a practical impossibility?

1 By 'the accepted theory' in this paper I mean the group of solutions (they are legion) which, though differing in details of arrangement, agree in this, that a trireme had three banks of oars at a substantial interval one over the other, a quinquereme five, a dekerm ten, and so forth, such our rowed by one man and the lowest bank fairly near the water. (I do not include Bauer, or so much of Assuman as relates to breit-polyereis.) All these solutions rest on a common basis and fall together if that be destroyed. The most important current expression of this theory, beside Mr. Torr's, is Assmann's hoch-polyeres theory (art. Securcion in Baumoister and several papers, mutably Jaket. 1889, p. 91, Zur Konstnies der Autiken Schiffe), followed by Droysen, Grischische Kriegnalterfümer in Hermaun's Lehrbuch; Laubeck, Das Seewarn der Griechen und Römer, 2 vols 1890; and Schmidt, Ueber griechische Dreireiher, 1890; to indge by Luchsolt's article birraria, it will be adopted in the new Pauly-Wissowa Bouer's theory (Gricchische Krisgmittertümer in Müller's Hamillo d. Mass. All. - Wiss., 1893, and several papers), that a trimme had a very slight interval between the banks and that ships larger than triremes mever had more than three banks but employed more than one man to an

oar, is quite a separate matter. Important is Admiral Fincati's Le Triremi, 1881; a trireme had three ours to one bench, like a Venetian galley a zenzile. I unfortunately only know this book in Serre's translation, at the end of Vol. 1 of his Marines de la guerre, 1865 and 1891, from which I site it. I cannot classify Admiral Serre; though accepted, I believe, in France, his views seem to lear little relation to the evidence. Weber's book Die Lanuag des Truccurateels, published 1896, but written much sarlier, with many blunders and mistrauslatious, contains ideas. A trireme had three men to an our, a quinquereme five, ate Accepted by Speck, Handelepsahichte, 1900. Weber has no monopoly in mistranslations. The best exposition of the accepted theory prior to Assmann is probably that of Cartault, La Tribre Athènicane, 1881. 1 understand be afterwards agreed with Bauer. While this paper was in the press two important. articles appeared : one by Mr. Torr in Dan-Sagl, s.v. navis, which seems to state his version. of the accepted theory more definitely than was done in Assist Ships; the other by Mr. A. B. Cook in Whitley's Companion to Greek Studies, who favours the Venetian theory, but not very decidedly. References to Torr in this paper are to America Show unless otherwise stated.

If it does, the fact obviously has a very real bearing on the question of the degree of credibility to be attached to ancient history generally; and this

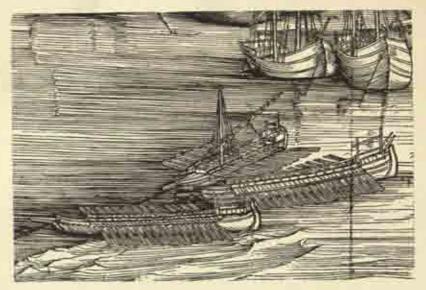


Fig. 1.—Group by Venerias Trinemis a Zenzille.

From a wood-cut in the British Museum, dated 1500, by Jasopo de Barbari. (Large view of Venice, Mitchell Collection, 1895, L. 22, 1195.)

seems to me to be the true importance of what has become known as the 'trireme-problem.' The object of this paper is simply to examine evidence,



Fig. 2.—Small Portion of a Venezian Bineme a Zenezia, showing the Abrangement of the Rownes.

From a wood-cut in the British Museum, late fifteenth century (1866, 7, 14, 48°). This appears to be a state galley, and is at rest, with the crew sitting in her.

and to try to ascertain primarily what quinqueremes and triremes were not, with a view to clearing the ground; the period to be considered ends in

effect with Actium, which closes an epoch in naval warfare. The positive conclusion appears to be that the Greek system was analogous to the Venetian, i.e. that a trireme was in the nature of a trireme a zenzile, and that the large ships of the last three centuries B.C. were galleys a scaloccio.

Apart from the Athenian lists, which are conclusive for what they state, the evidence falls mainly into three classes; (1) historians and inscriptions, (2) scholiasis and lexicographers, (3) monuments. Class (1) varies in weight but includes all the best evidence. Class (2) has no independent value at all; at best it can only be used to illustrate Class (1). Where they disagree Class (1) must prevail. Probably Mr. Torr is right in saying that Class (2) can be neglected altogether. In Class (3) every item must be taken on its own merits; one may be of great value, another worthless. This class requires a more thorough going criticism than it has ever received or than I am competent to give. Many supporters of the accepted theory are inconsistent; they may begin, like Assmann, by saying that Class (2) is not trustworthy; they always end by relying upon it. This paper is intended to be based primarily on Class (1). For obvious reasons I have had to consider Class (2) to a certain extent; I have never relied on it myself and I do not consider it evidence.

The following propositions seem to represent the facts of the case.

A.—The terms thranite, zugite, thalaunite, have nothing to do with the horizontal rows (or banks) of oars. The rowers were in three divisions, or squads, thranites astern, zugites amidships, thalamites in the bows. This applies to triremes and the larger polyerois."

B.—The terms τρίκροτος δίκροτος and μονόκροτος refer primarily to these squads.

C.—There is no evidence of any kind, good or bad, for the dogma that, among Greeks and Romans, at all times and in all places, one man rowed one oar; but there is good evidence (1) that in the triremes of the Peloponnesian war one man rowed one oar and (2) that the same applies to the Athenian quadriremes and quinqueremes of the fourth century.

D.—There is some evidence (1) that in the first century n.c. more than one man sometimes rowed one oar and (2) that the larger polyereis were too

<sup>\*</sup>I have had to notice the boats on Trajan's column, and one or two other matture, and, of course, writers of later date.

A trivens a zonille was one in which three men sat on one bench on the same level, one a little astern of the other, such rowing one ear, the three cars issuing through one opening safe by side, and giving the appearance of a bundle of three cars (see Figs. 1 and 2). In the galley a scalocolo several men rowed such our.

<sup>\*</sup> The manumental evidence is often overrated. Even in the case of the best monuments.

one can never say how for the artist, may have sterified truth of detail to artistic considerations. It will be considered under E.

<sup>&</sup>lt;sup>3</sup> However little one wishes to degratise, one caund always be writing in the petential mood and expressing every shade of proper terrestors.

By 'the larger polyseem' in this paper I generally mean quadriteness to dekereis both inclusive, nothing over a dekeres being heard of in action.

low in the water, too light, and of too simple an arrangement, to admit of the accepted theory being applicable to them.

E.—There is no good evidence, and very little bad, that can be made to refer to the accepted theory. There is none that necessitates, or even invites, this theory.

It remains to consider the evidence for these propositions, and the conclusions to be drawn from them; and, finally, to consider the Athenian trireme.

#### 1.

Polyaen. 5, 43. 'Calliades, overtaken by a swifter ship, kept using his steerage frequently, according as (the pursuer) tried to ram now from one side and now from the other, so that the pursuer, striking his steerage with her catheads, might not be able to ram by reason of her ram being over against his first (i.e., steromost) thranite oars.' That is to say, as the boat behind made her shot, Calliades put on his steerage; the ram missed his stern and slid past it toward, pointing at, his sternmost oars, while the cathead struck his stern, and of course too high to do much harm; this checked the pursuer's way for the moment, and while she was straightening berself for another shot Calliades would gain a little on his new tack. The oars the ram pointed at were the first or endmost thronite oars. On the accepted theory they would have been the first or endmost oars of all three classes. The thranite oars therefore were in a group at the stern.

Polyaen 3, 11, 14. Chabrias prepared a second set of steering oars for rough weather which he put out through the παρεξειρεσία beside the thranite oars (κατὰ τὰς θρανίτιδας κώπας). His avowed object was to prevent the steering oars leaving the water as the ship's stern lifted, and of course the oars that they were put out beside can only have been the sternmost oars. The thranite oars then are the sternmost oars. On Assmann's theory no sense can be given to the words the thranite oars at all: " for as he supposes that the thranite oars were rowed through the

A is very old as an opinion. B and a good deal of D (2) are new, I think, C (1) is given correctly by Baner. D (1) is primarily Weber. In referring in this paper to Baner's arrangement I mean his arrangement considered physically, (.c., as a slight interval only between the rows, apart from questions like the meaning of thranite or supergeoscie.

<sup>\*</sup>τῷ τὴν ἐυβολήν εΙναι κατὰ τὰς πρώτας \*pariridas κάτας. The only writer known to me who cites this passage is Brensing, Die Lüssing des Tricrosraties is, 1889; and as he could not understand it at all, he said that the words from τῷ τὴν ἐμβολήν to the end imust be a gloss. If one may discard everything as a gloss that does not suit one's own theory, one

can prove anything. No me who has seen a bumping race, and watched the cox of the boat in front washing off the nose of the local behind with his steerage, will have any difficulty in constraining the passage. I quote Polyaemus throughout from Woelfflin-Melber. He made considerable use of Ephoria; but according to Melber, Uther dea Qualter and der Wert der Strafegemensminning Polyaes, (1885), the passages most material to this paper (5, 48; 8, 11, 7 and 12 and 13; 5, 22, 2) am derived from some earlier work on axial factics.

<sup>\*</sup> Assumant has to translate it (Banmuister, 1618) 'neben den hintersion Thranitenriumen,' which is not in the Greek.

wapeξειρεσία and the others through portholes below, if the steering oars were put through the wapeξειρεσία they could not be beside any oars but thranite oars, and the words are redundant and meaningless. The necessary sense is 'beside the sternmost oars,' 10

Polyb. 16, 3 (battle of Chios). Philip's dekeres rams a trihemiolia in the middle of the hull under the thranite 'thole.' On the accepted theory this can only mean 'between the thranite and zugite banks.' The difficulty is twofold: (1) historians never (I think) mention the height at which a ship is struck: their references are always longitudinal, so to speak. They distinguish between blows  $\delta\phi a\lambda a$  and  $\delta\xi a\lambda a$ ; otherwise they appear to assume, as all monuments (and all reason) shows, that the ram, if not submerged, was near the waterline; (2) even if the trihemiolia were lower than a trireme, the dekeres, if I am right as to its height, (see under D), cannot have had its ramplaced as high as the 'zugite' bank; while if the accepted theory be true, then, even if the trihemiolia were as high as a trireme, the far taller dekeres must have cut her right down with the stem and could not be said to ram her under 'anything.—The passage is of course not conclusive.

" In a Rhodian inscription of the first

half of the first century a.c. (LO, xii. rase, i. No. 48) trihemiolial are contrasted with extaplicacts, and again trirences with aphrants; angresting that the trihemiolia was then a smaller or less important ship than a triceme. The form \*propognatio\* (Ath. 2034) suggests that Photius is right in calling it a trirence; if so, if was a light trirence evolved from a hamiolia (as to which see n. 22), as the trirence from the pentekontor. The suggestion that it means a ship of 24 banks is the mureat gress work.

<sup>13</sup> αυτά μέσος τὸ κότυς όπὸ τὰν θρανίτην σκαλμόν. Cited by Weber.

" As I shall often have to refer to the battleof Chios, I should note that some writers (e.g. Beloch, Becolkerung, and Hine) doubt the accuracy of Polytima version, obviously drawn from Bhoslian sources, that it was a defeat for Philip. But even if so, this cannot affect the details of single events, which are precisely given ; for even if the Rhedians wrote up an account of the battle for the honour of Rhudes and Theophiliscus, they would take all the more care to put in details that either did happen or might, consistently with martical probability, have happened. The account of this battle is hardly affected by Polymansupposed imaccuracies as to the first Punic war. for which his sources were far different. Onecannot go into the case for Palybins in a note; but I would point out (1) that, as to the numbers, no one, I think, has yet examined the numbers in the assights. generally up to Actium, and the only examina-

<sup>&</sup>quot; This passage, imlike the former, is not evidence against anyone but those who accept Assumin's view (based on the monuments) of the rapeguprain as an outrigger or our-box (Hiemen kasten); however, as it is conclusive that Assmann is right on this point, this is not very material. Chabrias' new attering oars were not where the old ones were. The new ones were through the superspecia; therefore, the old ones were not. But the old ones were in the usual place on the stern of the ship, as shown by their lifting clear of the water; therefore the old wiser, that by superspecia is mount the stern (and bow) of the ship beyond the carage, is untanable. The same conclusion is supported by Period. Pont. Eux. 3, the waves coming in not only through the our-holes but over the rapelemental (where the reference must be to a higher point, not a different point); and by the frequent references to ships losing part of their wasefesperia in action (Thuc. 7, 34 is a good instance). But the absolutely desirive passage is Polynon. 3, 11, 13; Chabrias strutches skins over the superspecia of ouch side of the ship (but o var rapeterperiar engrepovoices) and mails them to the deck above, thus making a spayan which prevented the waves washing in and the narmen looking out, Chabrins here improvised a cataphract. Assmann never really proved his swn theory of the \*upstropering at the same time there is nothing in Burowh's attack on it. Die Ergebnisse der neueren Forschung über die allen Trieren (Woch, Tile klites, Phil. 1891, No. 1).

Is there any counter-evidence, i.e., evidence for the view that thranite refers to the men in the highest row or bank of a trireme, zugite to those in the middle row or bank, thalamite to those in the lowest, however the rows were arranged? All that I have ever seen cited belongs (except Pollux) to Class (2) and is given below. I know of no other. I have collected these passages so that it may be seen at a glance that all of them (except the first half of Schol. Frogs 1074 and one from Eustathius and that from Pollux) represent one statement only, namely, that given in the latter half of Schol. Frogs 1074.

If the latter half of this Scholion on Frogs 1074 is all one sentence, what it says is 'The τάξις which is κάτω is the thalamites, that which is μέση is the zugites, that which is ἄνω is the thranites. Therefore, the thranite is astern, the zugite in the middle, the thalamite toward the prow. Everyone (except Weber) has omitted the νόν. Now if νόν means 'therefore,' it follows of course that by ἄνω the Scholiast means 'astern' and not 'above'—the consequence of sitting ἄνω is that you sit astern—and by κάνω he means 'in the bows' and not 'below.' Any supporter of the accepted

tion for part of the period that I know of-Krommyer, Die Entwickelung der vom. Pleete com Scerauberkriege des Pompeius bis zum Schlischt von Actium (Philol, 1897), p. 426accepts the great numbers recorded for the war with Sextus Pompey; (2) that to bring in the population question (Beloch, Serre) is surely to explain obscurves per obscurate; (3) that the real exaggeration is not in the separate accounts of battles, which generally mention 'ships' or 'outaphracts' but in the summing-up chapter (1, 63), where Polyhius has used weerhoere when he ought to have mid warships, as appears both from the separate accounts and from the solumna vastrata (C.L.L. 1, 195); and (4) that Ham's objection (Roos, Geach, \$2, 47) that the Romans had ships before the first Punic war, neglects the obvious explanation that Polybius or his authority means no more in speaking of the creation of the Reman fleet than we might in speaking of the creation of the German fleet-a first serious hid for seapower. See also n. 91.

I cite it from the codex Veneture. In the former half, according to the faceimile published by the Hellenie Society, and. For smits F.) Schol Ach, 162 tor sperroreur at him him έρεττοντει θρασίται Λέγονται, οί δε μέσοι ζυγίται, al 84 κάτω δαλάμιος. Ηρυγείε θρασίτης δ τράς την πρόμυμε, ζογίτης δ μέσος, δαλάμιος δ πρός τη τρώρο (so Suides and Zonams) Hesych. θαλά. mas thirty A sarwrane thisaue is to vol bandmus Adversa, A 31 misses (bycus A 31 hedrares θρανίτης, θαλάμιας κώπαι οί κατωτάτω και οί ταύτης έχαιτες την χώραν έαλόμιος λέγοντα... Smidas. Opavirus Xews The you spertierus of nes δεωθρανίται λέγονται, οί δι μέσοι ζυγίται, οί δι κάτω beadquar Etym, Mag suxualdin sawar d cavaτατος έρθτης θαλάμως λέγεται, δ δέ μέσοι ζύγιος, δ 80 dederaros Boneirgs. Enstath, 1818, 52 fxe. 84. ongie (Pausauma), obros (thimnite) the desc Show, the Section (Creat, the tritte Maddator. 640, 11 θαλαμίται και θαλάμκες έρέται οι όψὸ ross spariras. Lastly Pollux 1, 87 zahoiro 8' kr. cal Bilance of al Balance spirrover to hi mira The roke Cina, ob al Conces authoras ad 81 montal кататрыки враves, eb at вригуты: There to another scholion on Frogs 1074, given by Zurniti, Scolii al Pluta ed alle Rune d'Aristofano dal codice Veneto 472 e dal codice Cremonouse 19990, t. 6, 28 - ppeis raffeir fone er en apphierοί μέν πρώτοι θρασίται καλούμετοι, οί δε δεύτεροι toyitas, of 31 reiros falaquees. Read with Enstath 1818, 52, this illustrame the use of volves as sterumost in Polyann, 5, 43 above

18 Unless it be Ar. Mech. 4, discussed under F.

<sup>&</sup>quot; That are and wive mean 'astern' and

theory must say then either that on here means, not 'therefore,' but something indeterminate, such as 'well, then;' or else that the sentence is two separate scholia, combined in an unintelligent manner. Either is possible, though neither can be shewn to be correct; but in any case it is certain that this scholion and the similar passages depend on the meaning of are and sare.

Pollux 1; 87 is different, and suits my view at least as well as the accepted theory, even if Pollux be referring only to triremes, which we have

no right to assume.

Remains Eustath 640, 11. If this is not (as I think it is) Eustathius' own misunderstanding of  $\kappa \acute{a}\tau \omega$ , then the question arising is, are we to follow on the one hand Eustathius, or on the other Polyaenus (twice) and (in effect)

Arrian (see B)! The answer admits of no possible doubt.

What it then comes to is this. In order to say that the terms thranite, zugite, and thalamite refer to longitudinal rows or banks one over the other, we must take the latter portion of the Scholion on Frogs 1074, say it is evidence, translate it in a way that, at best, cannot be shown to be correct, and use the result, with the (possible) help of Eustathius, to overrule two passages in Polyaenus, possibly one in Polybius and (in effect) Arrian (see B); and having done this, we land after all in the difficulty in which everyone is landed by the fact that all the higher values, as shewn by that inconvenient tesserakonteres, only possessed the same three classes of oarsmen. I may add that my view explains that thorn in the side of the accepted theory, the greater number of the thranite oars as compared with the zugite and thalamite oars, which the Athenian lists render certain.

B

The terms that correspond to the division of the rowers on a warship into squads are τρίκροτος, δίκροτος, and μονόκροτος, which are usually referred to the (triple) beat of the three banks of a trireme, the (double) beat of the

'in the bows' has often been asserted but never proved. I believe it is correct, but my reason for thinking so is given in B; it has nothing to do with the Schol on Fregs 1074. If it be correct, all the fire and save passages given in the note are disposed of conclusively.

"This forced Assmann to explain e.g. a dekeres as constituted by three superposed triads, each triad consisting (in superposition) of a thranite zogles, and thalamits; with a lonely thalamite on the top. The reorganism price is legiments evidence so far as it goes. Since the inscription about the remaneripm was found, no one can suppose it to be a bad joke of Callicenus; and the idea that it was a kind of flat-buttomed river barge (Assmann, Droysen, Torr) seems to me to be disposed of by the met that Philopator Acel such a barge (the Salacayer of Ath. 204 d. eq.). If any one will
read Athenaeus consecutively he will see that
he puts side by side three monsters of three
different types; the recomposition (long ship),
the Salageyér (nordmon nation), and Hicco's
ship (round ship). The height of the tersorakonterns, on which reats the 'Mississippi
steamer' theory, is given to the top of the
ampouréator, which is see Luddell and Scott) is
not the gunwale, see Tore, 68. These who
treat dispusper as Ampirepara have forgotten the
old Calais-Douves; and the twin built was only
the logical outcome of the common practice of
lashing two ships together to get a steady
platform.

two banks of a bireme, and the (single) beat of the one bank of a periphy. There is no evidence for this whatever, and if it were true one ought to find \text{terpax(xpoto)} and so forth, forms that never occur. The conventional explanation of their non-occurrence, given by Graser and repeated by Cartault and Luebeck, viz., that the larger polyereis did not appear to an observer from the side to have more than a triple beat, is futile; why did any ship, from the side, appear to have more than a single beat? \*\* The words must apply to some arrangement which was threefold and no more; and it can hardly be a coincidence that precisely the same point arises over the words thrunite, zugite, and thalamite.

The important passage is Arr. Anab. 6, 5, 2, 19 generally cited, together with a note that δίκροτος = διήρης, to shew how near to the water was the lower bank of a bireme. The explanation is unfortunate, as Alexander had no biremes with him. Indeed they were not in use in his time. No one

seems to have considered this preliminary point.

To take things in order, Arr. Anab. 5. 8, Alexander carries his ships over from the Indus to the Hydaspes, triakontors in three sections, the smaller boats in two, 6, 1. He builds on the Hydaspes many triakontors and hemioliai, also horse-transports and other transports, 6, 2. The fleet that started down the Hydaspes, according to Ptolemy, consisted of eighty triakontors, together with horse-transports, cercuri, and river boats, some being native boats, and some newly built. 6, 5, 2. (At the junction of the Hydaspes and the Acesines) the cargo boats (στρογγύλα) came through the rapids safely ; but the warships (µakpai) suffered as they were lower in the water, and those of them that were δίκροτοι had their κάτω oars not much above the water; and two were lost, 6, 14. He builds more ships in the land of the Malli. 15. 1. He receives some more triakontors and some cargo boats (στρογγύλα). 6, 15, 4. He refits: 6, 18, 3. On his expedition from Patala to the sea he takes the swiftest of the hemioliai, all the trinkontors, and some cercuri. 6, 18, 4. The waves get up and he loses some triakontors, Arr. Ind. 19. On the Hydaspes, Alexander had about 800 vessels, both warships (µaκραί) and cargo boats (στρογγύλα) and horse-transports and food-transports. 23. Nearchus loses two warships (µaκραί) and a corcuras, in a storm. 31. Nearchus (requiring a good ship for special service) sends a triakontor—the island story. No other writer adds anything."

Two things come out strongly from this: (1) the important warships were the triakontors; (2) the only warships were the triakontors and homioliai, for Arrian does not count a cercurus π as μακρά (Int. 23). The warships

annipp xai axediae

If there was a visible triple best on any view, what becomes of the stock comparison with the wings of a bird;

<sup>&</sup>lt;sup>19</sup> Βσαι τε δίχροτοι πότων (1.6. τῶν μπερών τεῶν) τὰς κάτω κώτας κὸκ ἐπὶ πολὸ ἔξω ἔχροσας ποῦ Βόμγος.

<sup>\*\*</sup> Curtins, Diedorus, and Justin are silent. Plutarch (Alex. 63) says he built replicie.

The committee of the committee of a first inches a lot of evidence. We have a lot of evidence. We have a lot of evidence. We have a lot of evidence of a first inches a lot of evidence of a mare mistianishation of App. Pag. 121.

then that were  $\delta(\kappa\rho\sigma\tau\omega)$  were either triakontors or hemioliai. But whatever  $\delta(\kappa\rho\sigma\tau\omega)$  means, it is certain that a hemiolia was not  $\delta(\kappa\rho\sigma\tau\omega)^{\pm}$ . The ships that were  $\delta(\kappa\rho\sigma\tau\omega)$  then were triakontors, i.e.,  $\mu\sigma\tau\rho\rho\omega$  of fifteen oars aside. Consequently,  $\delta(\kappa\rho\sigma\tau\omega)$  does not primarily mean a bireme, whatever the lexicographers say, and does not therefore refer to the double beat of a bireme's two banks of oars, supposing it to have had such.

If then δίκροτος does not mean 'double-beating,' it can only mean 'double-beaten.' Now συγκεκροτημένοι is the common term for a trained crew, 'beaten together,' or 'welded together'—(we sometimes say ground together); δίκροτος therefore means 'double-welded,' a ship whose crew is trained in, or falls into, two squads,<sup>24</sup>

Now we can get at the meaning of ἄνω and κάτω. A triakontor had two squads of rowers, and, though single-banked, the oars were distinguished as those κάτω from those something else, presumably ἄνω. In relation to the oarage, therefore, κάτω and ἄνω mean fore and aft; <sup>30</sup> and this is confirmed by the usage of κατά and ἀνά <sup>30</sup>. This explains the Schol, on Frogs 1074, in

App. Mick. 92 the pirates originally (\*parter) used myoparonis and homioliai, later (elva) Supplyon and triremes, i.e., when they erganised themselves. This is conclusive; and nverrales Hesyah, handala h dispotes suns, where the definite article makes negacies anyhow. I want to make this clear, because the accepted explanation of baselia is a ship with 14 banks. There is not a shred of evidence for this : It tests on the fact that hudder means 14. I might say that bemiolia means a ship of It squails which has at least the support of Photins are of το πμιόλιος μέρος ψιλόν έρετώς fort rear ra in airor naverbar. The cortain thing is that it was a pirate ship (Arr. Anal. 3, 2, 4, App. Meth. 92, Phot. s.v.), and a typical one (Theophy. Char. 25, 1), and could be classed with the little myoparones, which were certainly single banked (evidence Forr 149); it was a favourite for surprises (Diod. 19, 65, Polyanu. 4, 7, 4); and the latter passage also shows it was small, the object of Demetrius being to display the minimum of force. Pirates, whose honds depended on their speed, would not go in tor famey arrangements of oars.

The word occurs in the active sense once, in a chorus (Eur. J. T. 407), Susperson seesars, of the Argo, is traditional single-banked ship, Ap. Rhod. 1, 294 seq.), where it refers to the beat of the oars on either side of the ship. This shows that in Euripides' time it cannot have been a technical term for the beat of two banks on the same side of the ship.

The same causes which compelled the Venetians to divide the crow of a trireme into

3 squads and work as a rule in relays (Fincation p. 167) would have compelled the Greeks also to do this. Part of a crew did row alone, (Thuc. 3, 49; Polysen, 5, 22, 4; Xea. Hell. 6, 2, 29); but these passages do not show which part. If, however, when not in action, one squart only rowed at a time, as at Venice, it is explained how the Athenian horse-transports, with 60 cars only, kept up with trirones.

⇒ i.e., when used as technical terms; for Thuc. 7, 65 (the Syrsements covered with hideras πρόρου καὶ τῆς νέὰς ἀνώι might refer to the upper works of the ahip. As to old ἐνὶ πολύ ἔξε ἔχουκαι τοῦ δίωτος, the forward cars would of course suffer most in the bad water. But it may be that these triakontors, built for a siver, were even hower in the water than usual, and anyhow they would be heavily inden. Some were lost going down from Patala.

word for motion inwards and for motion outwards; Mr. J. L. Myres, J.H.S. xx p. 140 sq. For later Greek, Mr. A. P. Opps, J.H.S. xxiv. p. 225 sq. Mr. G. F. Hill kindly furnished me with these references. If the slip was generally entered from the stern, this would explain why save should be found discoult explain why save should be from a discoult explain why save should be from a discoult explain why save should be from a discoult explain why save should be found discoult explain why save should be formed from the stern, if launched bow first; see Prof. E. A. Gardeer, Jacobs discount of the ordinary term for 'to come forward,' acceptor rises also been out by the ordinary term for 'to come forward,' acceptor rises also been forward, acceptor rises also been sould be shorn.

the sense required by the natural reading of the Greek, and all the other evidence of Class (2) cited n. 14, except perhaps the one passage in Eastathius, which, as we have seen, must be treated as overruled. The conclusion reached

under section A is thus strongly supported.

It is of course also possible that in some ships the forward squad sat, or once sat, rather lower on the whole than the after squad. If this were so, the thranite oars would on the whole be rather the longest; and if the Athenian trireme resembled the Venetian triremes in Fig. 1, this may perhaps explain the statement in the Athenian lists that of some condemned thranite oars ten were serviceable for the zugites. Once sate had come to mean 'forward,' the term would remain, even if in historical times the difference was slight, or even non-existent; how many centuries have passed since 'forecastle' or 'starboard' had any real meaning?

But to return to δίκροτος. When Hesychius says that a διήρης ναῖς was also called δίκροτος, is he wrong? Or is the more accurate Pollux (1, 82) wrong in treating διήρης and δίκροτος as separate ships? I think both are right. I will assume here for a moment the result arrived at in section E, that (subject to the meaning of δίκροτος) there is no evidence for the use of biremes until well on in the first century B.C.; the question then is, is there any passage in which δίκροτος must mean a bireme? I think there can be no doubt that it means something different from and larger than a μουήρης, but smaller than a trireme, in App. Mith. 92 (see n. 22); and it will be fairest therefore to assume that to Appian generally δίκροτος

Find identally, this may suggest that Schol.

Freeze 1074 represents a genuine tradition, 4.s.,
one descended from a time when men knew
the technical meaning of méros; for of course I
do not suppose that the Scholinst seem this,
any more than Eustathius, and all that I can
attempt to show is what the word meant to
Arrian, or rather to Ptolemy.

Bauer, New Philal. Kambehan 1895, p. 265, 'in Schrag vom Hinterschiff zum Vorschiff abfallander Linie augeorineten Ruderpforten, which may well be right. It is slearly shown in the Venetian trirmes in Fig. 1. See Assch.

Ayam, 1617, and n. 80.

The inclination of the experiments to the long axis of the ship (n. 118) would furnish mother explanation. The longest ears of the tesserskonteres were throuts ears, as the reference to the lead shows (Ath. 203 f); but as we have no idea how she was arranged, it is useless either suggesting explanations of this or drawing deductions from it as to triremes. All her thrantte ours were not of the same length.

ablama were extant, we might have something to go me us to the relative lengths; for as most oars go at the leather, or point of contact, then if only a for could be used as Coyin se should know that any theory (like Assumann's explanation of the Lenormant relief) which made the angite care less than two-thirds of the length of the thrunite, was, on this ground alone, untenable. The higher pay of the thranites probably had nothing to do with the length of the ear, (that is a Scholisst's guess), but was merely one sign of the greater consideration they enjoyed; and the primary remon no doubt (apart from any question of their more probably being burgesses, was that it depended largely on thom, as the stern ours, whether the beat was "together" and kept her pace. Great importance was attached to the manning of the stern benches in a mediacyal galley, as Jurian de la Gravière shews. The Athenian lists do not really prove anything at all as to the reintive length of the oars, as we do not know why those ten were combinmed ; and we have no right to make them mean that all themits ours were longer than all sugite ears, still less that they were much langer.

means bireme, which (incidentally) takes us back to the first Mithridatic war (Mith. 17). How then came a word, which at the end of the fourth century

was applied to a triakontor, to mean a bireme?

The first standard warship was the pentekontor, invented in 704 B.C. 31 from which was afterwards evolved the trireme. By the time of Demosthenes the pentekontor was no longer in regular use," shewing that the trireme did its work and did it better. But the lighter triakontor was in full use throughout the fourth century "; and by the end of this century we find frequent mention of another light ship of a different type, the first 24 of many borrowings from pirates, the hemiolia,35 from which perhaps was again evolved a sort of light or abnormal trireme, the trihemiolia.30 The hemicha and triakontor, however, run side by side as light warships, shewing that neither could do the other's work; presumably the speedier hemiolia could not ram. Philip V. introduced another light pirate ship, the Hlyrian lembes, " which combined with great speed the power of ramming, and obviously effected something like a revolution in naval warfare (battle of Chios, 201 a.c.). The last mention, I think, of the triakontor in history is in the treaty between Rome and Antiochus III. 188 B.c. 8 The lembos then, doing the triakontor's work and doing it better, presumably tended to drive out the triakontor; and perhaps we shall not be far wrong if we guess that some one thereupon took a leaf out of Philip's book,30 'double-banked' his triakontors, and so evolved the bireme, se which would still be as much a vans 8/sporos as the original triakontor had been, possessing two squads only. As the triakontor vanished, the term &ixporos remained adhering (without ambiguity) to the bireme; and probably by the time that Appian

n See Kroker, Die Dipplex-cauca (Jahrb. 1886), with whose account (p. 106 seg.) of the first evulution of the warship I agree, as against Pernice's criticism in Ath. Mitth, 17 (1892), p. 300.

It does not occur in the Athenian lists, and plays no part in battles again. I do not mean it was not built at all , Mithridates a.g. had a few, and see Polyb. 1, 20, 14 (the Italioc states), 25, 7, 1 (Egypt).

23 Athenian lists; Arrian L.c. and 7, 19; Polyaon. 3, 9, 63; etc.

M If indeed the trakenter was not originally a pirate, Thus. 4, 9.

See n. 22.

- See n. 11.

Demetrins had bembot at the siege of Rhodes (Died. 20, 85), but we do not hear of them in action (if Diodorus be correct unither he nor Ptolemy put sorigen into line at Salamis), and so cannot say if they were the Higrian lember or not. Polyb. 1, 58, 9, and 3, 46, 5 (Hannibal crossing the Rhone) add nothing, and earlier mentions of lemboi refer to ship's beats. Polyhina is clear as to Philip's

fleet of lemboi being almost a new thing (5, 109, exells epiros rus is Mansoule Bueix ear) and as to his tactics at the battle of Chios being new. We may conclude that if he was not actually the first to introduce the Illyrian ismbes he was the first to perceive its possibilities and to nee it in a fleet mation.

# Polyb, 21, 45 ankérs égéra white s' caraфрактир илбе траностаномог Тхета Глангоmeror s.r.A. Livy 38, 38 has run the two together (nevo plures quam decem naves actuarias nulla quarum plus quam triginta remis agatur habeto), while App. Syr. 39 mentions estaphracts only.

See post, n. 94 as to Philip's 'hembr burenes,' and 'double-banking.'

\* Precisely the 'galentia' of Furtenbuch. No doubt someone experimented with biscures before triremes were invented. But these experforants remained without effect witness. the silence of Herodotus, Thucydides, and the Athenian lists, and indeed of all writers prior to Caesar) and have nothing to do with the birenes known to history, which appear limit in the 1st century c.c. See under K.

and Arrian wrote the fact that the word had once applied to a triakontor had really been forgotten, and would have been lost, had not Arrian fortunately simply copied down Ptolemy. The above explanation is of course guesswork, but (I think) reasonable and consistent guesswork.

As to μονόκροτος and τρίκροτος. These words, unlike δίκροτος, really were ambiguous, and therefore little used. Many ships were μονόκροτος—not divided into squads; and apart from Xen. Hell. 2, 1, 18, the word is found only once Similarly, τρίκροτος would apply, not only to triremes, but to all the larger polyereis; the word occurs thrice only, in Aristeides, Niketas, and Clement of Alexandria; they throw no light on its meaning.

0.

I have failed to trace either the genesis of, or any scrap of evidence that will support, the dogma that among Greeks and Romans, at all times and in all places, one man rowed one oar—a dogma that is responsible for three quarters of the nonsense written about the larger polyereis. Many writers are content to refer to the evidence as 'well-known,' generally a sign that there is not any; as given by Assmann and Luebeck, the proofs are Thuc. 2, 93; Polyaen. 3, 9, 63; Leo Tactica 19, 8; all the monuments.

Thuc. 2, 93 4 is conclusive evidence for this, and for this only, that in

" It may be objected that the bireme of Octavian's time was a "Liburnian." Biremes are mentioned in history earlier than Libernians, which is all I require; but it is as well to be clear shout the Liburnian. In origin, it was another of the light swift pirate-craft of the Adriatic (App. III. 3), If Indeed it was not the lembes under another name; and the fact that under the Empire the Libstraian was built, first as a birems (App. III. 8, Lucan 3, 584 note Lucan's "crevisse," it had gr. sm) and later as a trirente, stc. (Veget 4, 37), which nobody doubts, only shows that there were birenes of two different builds running parallel, the Liburnian biteme evolved from a Liburnian and the dicrotes birens evolved from s triakontor (just as earlier there were the trirence and the tribumiolis) ; see C.L.L. 5, 1956 which mentions a "bicrota" called Mars and a 'Liburna' called Clupens. Whon Applan (III. 3) mys that in his time light blapora were called Liburnians be shows, either that the two builds had become confounded, or (more probably) that he was ignorant of the process by which the Siepores lifeme had been evolved, and that for him Meporor was simply bireme.

This passage is a good instance of one which explains equally well on easy theory and is uncless to eite. Other good instances are Polyaen, 5, 22, 4 and the drowning thalamites of App. b.c. 5, 197.

Strates 7, 325, declars Known the securation according, declaration accordings, declaration according to mark the fact that the trophy began, not only with a perfect, but with the smallest kind of purpose.

14 λαβόντα τών ναυτών έκαστου την κώπη» E.t. A. Bauer alone has put this correctly. As regards triremen, the passage is conclusive as against Weber (three men to an oar) who has to mistranslate it, and Sorre (three banks, but in action only the top bank rowed by three men to an oar), for then Brazidas would not have troubled to take the other oars with him om a mere raid. The large number of care for a trireme given in the Athenian lists also certainly presupposes one man to an oar. Weber has to say a triteme curried two spars sets, which (spart from the question of weight) is improbable, seeing that the account of battle after battle assumes that a ship with a crippled rapeds is out of action. The spure par question is not, however, easy; see e.g. the Hippin (C.L.A. vol. 2 part 2, 802 c. 6) which is said to have a radios floridos (not, however, frrends Sómmos) though five ours are broken. Probably Assman's solution is the bost (reviewing Schmidt in Revi. Phil. Weck. 1900. No. 43); the repires ours were deck sweeps, carried for me in a ship left crippled. I may add that,

the triremes of the Greek states at the time of the Pelopomesian war one man rowed one oar. One is ashamed to have to state anything so elementary.

Polyaen, 3, 9, 63 refers explicitly to triakontors and to no other ships; and Leo Tact, 19, 8 refers explicitly to the Byzantine dromones of Leo's own time and to no other ships. Neither passage has the least bearing on the question; as Luebeck at least saw.

As to the monuments. It sounds well to say that no monument shews more than one man to an oar, provided that the hearer be not acquainted with the scantiness, the inadequacy, and the obscurity of the monumental evidence. As every monument that shews rowers is called a bireme or a trireme, this obviously has no bearing on the question of the larger polyereis, of which we are not supposed to possess any representation at all. 45

But although there is not one hit of evidence for this dogma, which should long ago have been relegated to the limbo of things forgotten, there is evidence from the Athenian lists which proves that, at Athens in the time of Demosthenes, the ears of a trireme could form part of the rappos of a quadrireme and the oars of a quadrireme part of the rappos of a quinquereme: 46 Bockh called attention to this. Now quadriremes are common enough in the later lists, and remained in use at any rate for some time, for there were 30 Athenian quadriremes in Demetrius' fleet at Salamis (306 B.C.), and as they were posted on the left wing, on which Demetrius had massed his strength, they were presumably good efficient ships. We therefore get to this, that toward the end of the fourth century an Athenian quadrireme had one man to one oar, and similar quinquerentes were being experimented with. 67 But though not in use at Athens, quinqueremes had been known and used at Syracuse since Dionysius I.; 48 and therefore perhaps we may, or ought to, say generally of the quadriremes and quinqueremes of the fourth century E.C. that they had one man to one oar and were, in fact, enlarged from, and similar to, triremes, " as shewn by the transference of equipment generally (σκεύη) from one to the other at Athens. However, beyond the fact that the Athenian quadriremes were efficient, all the evidence we possess that throws any light on the nature of any of the larger polyereis is later than the fourth century, so or rather is not earlier than the building by

with a rapeleoperic half carried away, no spare oars but dock eweeps would (as the view I take of a triveme) have been of much use. Possibly however a triveme rowed 25 groups of 3 cars each odds, and carried some half dozen spare oars of such plate.

" And if we had, it would be a cataphract,

and so could not show any rowers

C f.d. vol. 2 part 2, 812 a 85; αδίτο ετέμε μεν τετρήρη ἀποδέδ[κα]εν τὰ δὲ σκεύη ὁφείλει διὰ τὸ [ἐπί] πεντήρη κατασταθήναι. The ακεύη here include the ταρμός which had been previously mentioned. 812 c 141 seq. 'Hōcia.
 [κῦ]τος τὴν τριήρη ἀποδέδα[κεν διὰ τὸ

refl verphys casecranera [và 51 crev]s speines (here follow the everphysical) execut from: follow derents... There is another passage to the same effect, and the filling up of the lamines is quite everain. Incidentally, this disposes of every reconstruction of a trireme which cannot be expanded into a quinquerence.

\* Rarely mentioned, and only in the last extent list.

\*\* Diod. 14, #1.

" Here we undoubtedly meet Assmann's

36 I shall find it convenient to talk of ships of the fourth century, prior to Antigenne' fleet,

Antigonus and Demetrius of the fleet which afterwards fought victoriously at Salamia. Meanwhile there is no evidence for any ship larger than a hexeres a prior to this fleet of Antigonus; and I fancy that even the mention of hexereis is probably an anticipation of events.

#### D.

Taking the battle of Salamis (306 R.C.) for the moment as a convenient mark of time, what evidence can we get as to the larger polyere later than this battle? So far as we have gone, we are at liberty to suppose more than one man to one oar in the larger polyere is in the last three centuries R.C., subject to this, that, as in a fourth century were inpose one man rowed one oar, we must not suppose that the same word at a later time bad a different meaning unless evidence appears to that effect. I give in this section such evidence as I know of as to the larger polyere is in the last three centuries B.C., the effect of it being to make it probable that they were galleys a scaloccio of some kind with more than one man to an oar, and to make it, I think, reasonably certain that the accepted theory is quite at variance with the facts.

(a) Some men in some ships stood at the oar, and were therefore rowing oars a scaloccio. It was the chief merit of Weber's book to call attention to the passage in Appian that proves this. When the sea got up (he says), Salvidienus' inexperienced crews could neither keep their feet nor 'come forward.' Note that Appian is not caring about informing the reader whether they stood or sat; he merely uses ἐστῶτες as an illustration, by the way, of how bad the tide was; he refers to it as to a well-known thing. Such a reference can hardly ever be anything but correct. Unfortunately, the

simply as ships of the fourth century. It will not create any confusion. For our purpose the

third century begins with Salamis.

M Achian F. H. 6, 12 : Dionysins 11, had a fleet of 400 ships, hexereis and quinqueremes; this is of course impossible, and it must mean 'including hearris and quinqueremen'; se-Diod. 16, 19. Even so, the statement as to hexerois is extremely improbable, seeing that Absunder never had anything larger than a quinquereme. Very possibly Dionysius II. had built one becomes on the fourth century system (whatever it was), as a 'royal ship,' The statement of Pliny N.H. 7, 56, that Alexander invented the dekeron, is valualess; - Lucleck 1, 17 n. 6 and Droysen 272 m. 5, who give the evidence as to Alexander's fleets. It is precisely what sould got stated about Alexander, and is on a level with Cart. 10, 1, 10, the 700 heptereis curried over in motions to the Emphraces; this last is refuted, were refutation. nonestry, by Arr. Auch. 7, 19, who gives the correct version (from Aristobulus).

Many writers have assumed, on the ground of practical necessity, that in the larger polyereis more than one man rowed one our : but that is another matter. Serre and Weber try to show that Ap. Rhod, I, 396 means two mon to an oar; but there is no foundation whatever for this. The passage, a straightforward one, had already been sorrectly explained by Cartault -Possibly the Delos ship. of Pans. 1, 29, 1 would be in point, if one know what the passage meant; but I cannot translate it, and Prazer's translation 'dacked for nine banks of ours' conveys no meaning to me. Passaniae had of course heard of higher values, and therefore the skip was abnormal in some way : victourte does not mean flarger than but 'mom curious than."

\*\* 8.c. 4, 85 (butils between Sexum Pompsy and Salvidienus); sore serveres pepalws ond apolius, obra ras unimas fre dempégair doramero. size of Salvidienus' ships is not stated, though they are said to be larger and beavier than those of Sextus: we must therefore consider the alternatives, taking two things as fixed points, viz., that for serious work no mun ever stood at an ear if he could possibly sit, and that five men to one our cannot all sit through the stroke.

First, can the ships in question be merely triremes ?

Fincati gives an account of the Venetian zenzile triremes, three men on a bench rowing three oars; extremely long oars, with leaded handles; he gives the lengths as 32, 30 f, and 29 feet, and proves these extraordinary figures from Venetian arsenal-lists. Obviously, with such oars the stroke must have been a slow one; and Fincati states (p. 167) that they rowed a stroke called monta e casca, rise and fall. Were then the ships of Salvidienus in question triremes, rowing the stroke called rise and fall!

This can I think be disproved. The oars of a trireme, whatever their exact length, were certainly very short compared to the Venetian, perhaps not more than half the length; <sup>55</sup> and there would be no point in rowing so combersome a stroke, for with the shorter oars the crew of a trireme could certainly have rowed sitting. That they did row sitting is clear from this, that on occasion they could row a really fast stroke, <sup>56</sup> which would not be possible except sitting. And if they ever could and did row sitting they would certainly do so when it was rough. What applies to triremes applies a fortiori to smaller ships.

Suppose then that Salvidienus' ships were quinqueremes on the model of the fourth century Athenian quinquereme. Then, taking two other fixed points, viz., that three of the ordines were identical with those of a trireme, and the oars in the other two only slightly longer, or we again get the fact that the men could have, and therefore would have, rowed sitting, or at most in the case of the longer oars with some such slight lift from the seat as some men are apt to give in the first stroke of a race. This might conceiv-

ours in a trireme 3.3 m. outleard.

<sup>\* &#</sup>x27;Vogne date laquelle la force aur l'aviron est produits presque tout entière par le poble du rameur, qui, monté debont aur le pédagne on aur le hanc qui précede, se jette en arrière, et, tirant à lui son aviron, va tomber assis sur son propre bane.' The band may have been used to meet the difficulty of the oars boing of different proportionate lengths inboard. How this was met in a Greek trirume does not appear; the only sound reference to lead is with regard to the thramité oars of the recresco-

<sup>38</sup> The length of the regises ours, 4.4 m., is the only one actually known, but this supplies a kind of limit. Schmidt has an interesting attempt to work out the measurement from the data as to the Athos canal in Herodotus and Demotrous of Skepais, he makes the longest

<sup>\*</sup>There are of course a great many references to spurting, and the common name for it, joungier, implies a fast enough stroke to make a good deal of splashing. The celebrated feat of as Athenian trireue, which swang round a merchantinum and ranmed har pursuar (Thing 2, 31) implies a quick lively stroke and a power of backing water on one side only quickly and forcibly. And the fact that a crew could only last a short time in action (e.g., Polyaen, 3, 10, 12, Diod. 13, 77. Frontinus 3, 5, 47) conclusively implies a fast stroke. Chabras, training rowers for a trireum, trained them sitting; Polyaen, 3, 11, 7; and gf. Aristophanes' reference to that which fought at Salamis.

<sup>&</sup>quot; See to 110.

ably satisfy the passage in Lucan Phars. 3, 543, 'in transtra cadunt et remis pectora pulsant,' but it will not satisfy Appian's ἐστῶτες.

If then the ships were quinqueremes or higher values differing from the quinqueremes of the fourth century—and no other alternative now remains—the only reasonably probable explanation of Appian is that enough men rowed one car for some at least to be on their feet some part of the stroke—if not throughout it—i.e., five men to an oar. Is I regret the conclusion, as it involves saying that  $\pi e \nu \tau \eta \rho \eta s$  meant one thing in the fourth century and another in the first; but we have seen that this was certainly the case with  $\delta(\kappa \rho \sigma \tau \sigma s)$ , and we shall find other reasons for supposing it to be correct. Incidentally, Appian is conclusive, I think, against a theory such as that a quinquereme was a three-banked ship with ours rowed by 2, 2, and 1 men respectively; for 2 men can sit to any oar,

(b) The larger polyere were not only of very shallow draught,<sup>20</sup> but low in the water also. The shallow draught is now generally admitted; the lowness in the water (a necessary consequence, by the way), requires consideration.

Polyb. 2, 10. The Illyrians, fighting with the Achaeans, lashed their lemboi together by fours and let the Achaeans ram. As soon as an Achaean ship was held fast by its ram the Illyrians leapt on her deck (ἐπιπηδῶιτες ἐπὶ τὰ καταστρώματα) and in this manner captured four quadriremes and sunk a quinquereme. The quinquereme then was but little higher than the small light lemboi.

Polyb, 16, 4 (battle of Chios again). It would have gone hard with the Macedonians had they not stationed lembol among their cataphracts; as soon as the battle became a mélée, and the Rhodians could no longer manœuvre, the lembol attacked them, even meeting them bow to bow; this the Rhodians met in a workman-like way.<sup>61</sup> I shall come to this

Lember small and cannot have had more than one bank: Livy 24, 35, and evidence collected by Torr s.c.

<sup>\*</sup> There is a fine picture of a mediacral quinquereme, with 5 men to an oar, on Pt. VII. of Furtenisch's Architecture Natulis, 1629; with a buge outrigger, and the carsness on their feet. A good description of such a quinquereme in Bigge, Der Kampf um Candia in den Jahren 1667-1669 (Kriegegeschichtliche Kinselschriften, Haft 28, 1899), p. 130 ; the man worked in three relays, as in a trireme. I owe the reference to these writers to the kiminess of Mr. W. C. F. Anderson For the emloccio galleys generally, see Admiral Jurien da la Graviere, Les derniers jours de la marine a rames, 1885; the different strokes in use (none rowed sitting; are described p. 251 say, the best of commentaries on Applian and on Lucan. Phans. 8, 548.

Quinquerems run ashore and the crows depart. Polyb. 1, 51; 3, 96; etc. Attalusroyal flagship at the battle of Chics trice not given, but following the mund Hellemintis practice [see too Beloch, Gr. Greek iii. pt. 2.

<sup>\*</sup> έμπιστόστων αύτως των λέμβων ποτέ μέν els τολο ταροπίς . . . συτό δέ πάλιο είς τας τούρας . . . κατά δέ τας άντισρώρους συμετά τεις όποιους (the Rhedines) το τεχτικόν

presently. Polybius is speaking here of the Rhodian wing. The Rhodians and Attalus together had in action three triremes, nine trihemioliai, and sixty-five cataphracts, by which larger ships than triremes are here meant; and 16, 5, shews plainly that the Rhodian ships attacked by the lemboi were, or included, quinqueremes. A lembos then could meet a quinquereme bows on, and the two must therefore have been of approximately equal height. On the accepted theory it would be like a destroyer trying to ram a cruiser bow to bow.

Caesar b.g., 3, 14. The sterns of the ships of the Veneti (which were real ships, not galleys, though shallow bottomed) were higher than the tops of the turres on Caesar's galleys. The size of Caesar's galleys is not given, but as they carried turres they cannot have been small ones.

Plut. Ant. 67. Eurykles in a Liburnian pursues Antony, then on Cleopatra's flagship, converses with him, and threatens him with a spear. Plutarch evidently conceived of the heights as not unequal, especially as Eurykles then attacks the second Egyptian flagship and spins it round like a top (περιερρόμβησε). Add perhaps Diod. 20, 50 (battle of Salamis in Cyprus): those on deck spear their enemies in the water; and Val. Max. 1, 8, b, 11: a rower, engaged in baling out a Tyrian hexeres, was swept overboard by a wave. As they had no pumps, we he must have been baling from the deck with a bucket; presumably she was very shallow.

Now as to the evidence generally quoted for the height of the larger polyereis, viz.; Livy 30, 25, Cic. Verv. 2, 5, 34, Orosius 6, 19, Dio Cass. 50, 33; (I know of no other; no one, I think, has thought it advisable to cite Vergil on Actium).

Livy 30, 25. Three Carthaginian quadriremes attack a Roman quinquereme; she was too speedy to ram, and the men in their armour could not board her as she was the taller ship. The height here is of course only relative to a quadrireme; and as you could board a quinquereme from a lembos you could of course do so from a quadrireme. Unless the point is the word armati, the most probable explanation is, that she had her turnes on board. Anyhow, the passage affords no evidence for the supposed considerable actual height of a quinquereme.

Cic. Verr. 2, 5, 34. Cleomenes run away from the pirates, and the

and lighter than Agrippa's; and the point of Sextus' opigram (108), that he had been storming forts, not fighting ships was Agrippa's turres. He gave orders responsible to the ships turres are clearly referred to, for at Naulochoe all his ships extrict turres, and could only be distinguished from Agrippa's by the war-paint (121). This seems to show that althorem is quite estimated by turres. The accounts of Actium show the difficulty of boarding ships carrying turres.

One of the wonders of Hiero's ship was the water-serow invented for her by Archimedes, Ath. 298 f.

<sup>&</sup>quot; Sed neque rostro ferire coleritate subterlabentem poterant neque transilles armati ex humilioribus in altiorem navem.

<sup>\*\*</sup> First mention of threes, battle of Chims (201 n.u.) Polyh. 16, 3, συργούχων (unless πορσούχων be the correct reading). The best commentary on Livy bern in the battles of Mylae and Naulochos in App. 5.c. 5. At Mylae, though some of Sextas' ships carried towers, they were on the whole much lower

pleader's case is to magnify his force so as to emphasise his cowardice. His quadrireme, the only navis constrats in the squadron, would, if he had joined battle, have appeared as big as a town among the pirates' myoparones. There is of course nothing in this hit of rhetoric about urbis instar the moment the context is read.

Orosius 6, 19 6 and Dio C, 50, 33. The Orosius passage was taken by Assmann to prove that the height of a dekeres (dekereis being the largest ships in Antony's fleet) was 10 feet. What Orosius says is that Antony's dekereis were actually 10 feet high; which is quite another thing. Antony's ships created the impression of being the largest ever seen, as appears in every account of the battle; according to Dio Cass. 50, 23, Antony, being aware that Octavian had crushed Sextus Pompey by sheer size and weight " resolved so to crush Octavian, and outbuilt him; a good deal of the speech put into Antony's mouth before the battle by Dio (50, 18) is taken up with boasting of the size and height of his ships and their towers, on the disadvantages of which Octavian in his turn expatiates (50, 28). If these monster dekereis were 10 feet high, what was the height of an ordinary dekeres, and how low in the water was an ordinary quinquereme? Supposing Orosins to be correct, a sentence more decisive against the accepted theory was never written. Then Dio 50, 33; when the fleet was broken up, and each of Antony's ships was surrounded, it was like forts or islands being besieged-a consistent part of the picture, but implying nothing further as to height; the reference in relyear is to the turnes, " to which also Orosius' measurement might possibly refer.

(c) A warship, of shallow draught and low freeboard, very long, was light and crank.<sup>55</sup> Livy 36, 44; two of Polyxenidas' ships attack Livius' flagship; he wishes to throw grapnels, and bids his men steady their ship for the encounter by keeping their oars in the water.<sup>50</sup> Any rowing man will see at once what kind of a 'ship' this implies. Plut. Ant. 67, before cited; a Liburnian spins the Egyptian flagship<sup>76</sup> round like a top. Demetrins' heptereis are drawn ashore anywhere; and Archimedes' grapnel could lift a

<sup>47</sup> Whether Sextus in fact ever spoke of τειχομαχήσαι or not, it became a commonplace; see τειχομαχία in Plut. Auf. 66.

Classis Antonii contumesptuaginta navium fuit quantum numero cedana tantum magnitudine prascellens. Nava desem pedum altitudine a mari aberaut.

Battles of Myles and Nadlochos in App. 6.5. 5; and see a. 64; Die Cass. 48, 47, 4 and 49, 1, 2; the evidence is overwhelming that for a few years there was a great race to building; not only as regards beight, but more especially in weight and thickness see Plut. Ant. 65, 65. I do not know why it is believed that Octavian had only light ships at Actium. He had the fleet with which he had crushed Sextus; up to hexage. Florin 2, 21 (4, 11). Plut. Ant. 62 is responsible for the other view; probably adopted to rub in the moral.

<sup>\*\*</sup> Polyaen. 3, 11, 13 (if the rowers apraing up in a hurry they might upon the ship), presumably refers to a trimme; nor do 1 lay stress on Lucau, Phars. 3, 665; if she took in drowning men she might turn over.

<sup>&</sup>lt;sup>89</sup> quina lub-residur, demilitere la aquam remos ab utroque latere remiges stabiliendas navis muiss jussit. App. Syr. 22, gives 5 Syrian ships, and 2, and says that it was they who tried to grapple Livins.

Size not given, but the flagship of any Hellenistic asymatch was always the largest obtainable.

quinquereme half out of the water. Arr. Annb. 7, 9, Alexander has quinqueremes carried in sections from the Mediterranean to the

Euphrates.

(d) The arrangement of a quinquereme was simple; there was none of the complexity of structure that five superposed banks would involve.71 At the battle of Chios the Rhodians met in a workmanlike manner the lemboi which rammed them bow to bow; they sunk their own rams under water, and so, while struck above the waterline themselves, they struck their enemy beneath it. Polybins is explicit that they did this during the fight; besides, they cannot have gone into battle with their hulls weighted down; as it is stated that at the beginning of the action their pace enabled them to row round their opponents. The only way a ship can lower its whole freeboard during action is by taking in water, as was done e.g. by the Huascar when bombarding Callao; this is out of the question, as quinqueremes cannot have had double bottoms, and also had no pumps. They lowered their rams then by shifting ballast forward, either live 72 or dead; 74 whence it follows that the system of oars was such that, with the bow depressed and the stern raised, the ship could still be rowed enough to keep her stem on to a speedy enemy. How this could be done in a boat having five superposed banks is incomprehensible; and any one who thinks that it could ought to work it out and demonstrate it. It implies some system in which, on the spur of the moment, changes of level and angle can be met; and this certainly implies among other things that all the oars were a reasonable height above the normal waterline, a state of facts demanded also, not only by common sense, but by the evidence that exists of changes in the waterline. 75 On the accepted theory, the lowest portholes forward of

This is presupposed by the pace at which a flect could be built; for which there is plenty of evidence (no doubt sometimes exaggerated) beside the first Punte war. Elaborate arrangements for building were not required; Dio Cass. 48, 49, Octavias built ships to xiay vi mapusakacovie 'Irakis; and no doubt the building of the Argo in Ap. Rhod. 1, 365 say, is copied from current Egyptian practice.

τα 61 (continues) πόται με τάς έμπορρα τὰ σπάφη ποιούντες έξάλους ελάμβανος τὰς πληγάς τοῦς δὲ πολεμίοις δόμιλα τὰ προύματα δελόστες

άβοηθέτους έσκεδαζου τὰς σληγάς.

Frontinus 1, 5, 6; Duilins, to get his ships (including presumably quinquereness) over the boom at Syramse, shifts the troops aft, thus raising his bows, and goes at the boom at full speed, shifting the troops forward again at the critical moment. If this be true, a ship with bow trised and stem depressed, i.e. with every angle altered, sould still get on a good deal of pace. It has, I understand, been demonstrated that a respecto boat making an

ordinary floating boom at full speed may be expected to 'jump' it without doing berself any serious injury.

54 Cf. Atr. Anot. 2, 19. If this be so, it implies that the ballest was smally got at

during action.

74 Those who speak of a row of portholes of 10 inches ( 25 m.) (Assumm) or any such height above the (normal) waterline cannot really have thought what this would mean. Leaving practical considerations saids, the waterline was so more a constant quantity then than now. Polyb. 1, 60-62, the Carthaginian ships were much hampered by being tonded down with own and stores which Hanne had trusted to put ashore before engaging. Diod. 20, 49 and 83. Demetrius mounts on the prows of his ships great catapalla (roes recraitedance res agasease), and of course ballasted the sterns secordingly. So Dullius corvi. App. A.c. 5, 121, Sextus Pompey's men throw over the turns when escaping shewing that they had beco too low in the water. See too an appendix to Kromayer's article in Philol. for 1897, before these Rhodian ships must have gone under water. This passage, in my opinion, certainly requires these quinqueremes to have been scaloccio galleys of 5 men to an oar, with the oars a reasonable height above the (normal) waterline.

(e) Finally there is Livy 28, 30.76 Caught in some eddies, a Roman quinquereme nevertheless held her way better than the Carthaginian tri-remes, and was more manageable; and Livy's second reason no doubt is right; there was more power behind the ears, and the fact that she was normally slower than the triremes had become immaterial. A greater number of one man ears would not have helped in the eddies relatively to the triremes; the required meaning is more power to cach ear. She must then have been a scaloccio galley.

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cited, on the great numbers of troops that could be carried at a pinch.—I do not give enses, like Marcellus' sambume before Syracuse, where the ships were not in action; though Marcellus' quinqueremes could still be rowed; Polyb. 8, 4(6).

<sup>28</sup> Quinqueremis Romans, seu pondere tenacier, seu pluribus remorum ordinibus seindentibus vortices, quam facilius regeretur, dras trinenss suppressit, etc. (For ordines remorant see under E). A little before, Livy had said she was slower than a trimme. Finant p. 158; according to Nicolo Surian (1583) a quadriteme a scaloccio could heat a trimens a scaloccio but not a trimens a scaloccio. It is just possible that these trimens were a scaloccio (u. 120) and owed their pace to the greater skill of the Carthagorians; but I think most improbable.

(To be continued.)

# HERACLES AND THE APPLES OF THE HESPERIDES: A NEW TYPE

Or all types of Heracles in Greek art, that with the apples of the Hesperides is perhaps the most familiar. Yet in the archaic period it scarcely occurs,1 and even in the fifth century, though the scene is often represented among the Labours, when accessory figures are consequently present, there are few examples of the hero holding the apples in free sculpture.3 With the fourth century, however, the subject becomes common, for it is to Lysippus and his followers that we owe the type of the Wearied Heracles holding the apples, which has given rise to the popular conception, That this became the stock representation to the ancient world as to the modern we learn from Suidas! καὶ γράφουσι δορὰν λέοντος φορούντα, καὶ ρόπαλου φέρουτα, καί γε μήλα κρατούντα. The earliest representation of the type, best known from the Heracles Farnese, appears to be on a tetradrachm of Alexander, and there can be little doubt that its origin is due to Lysippus. The replica in the Pitti bears the inscription AYXINDOY EPFON. Moreover, the numerous copies we possess and the frequent appearance of the type on late coins imply an original of great celebrity. We know that works of Lysippus were more valued than those of any other sculptor, and the dramatic and pathetic character of the figure exhibits the tendency of art at the beginning of the Hellenistic age. Finally, the original stood in Corinth,7 which was the centre of the Sicyonian school.8 A certain heaviness of build and emphasis of muscular form characterize even the best and simplest replicas," and descriptions of the colossal seated figure of the hero, one of the most famous works of the sculptor, lay stress on similar features. 10

\* See Furtwängler, op. Reschet, Lexikon, p. 8227.

I A. E. HORKATE.

\* Num. Chr. 1883, p. 9.

almost certainly that referred to by Pansanias, (ii. 5, 2).

\* Those is the Uffizi (Amelong, op. cit. p. 31) and the Louvre (Rev. Arch. 1895, Pt. XIII.), which, however, lack the exaggeration of the latter-known Parasse example.

10 See Overbeck, Schr. Qu. 1468-72.

Only on two b.f. leeythi, (a) Brann, Zwolf Baseel, vignatic to tai, XL; (b) Benndorf, Gr. a. sic. Passibility, taf. 42, 1.

A fine example, Myronic in style, is published in Dealmaler, 569-70.

Amslung, Pakeer, p. 134, where the genuinoness of the inscription is conclusively maintained.

B.M.C. Coristh, Pl. XXII. 5, Num., Comm. on Paux. Pl. F cttl. The statue is

A How favourite a subject it was with Sicyonian sculptors may be inferred from the fact that we have records of three Herneles status and a group of the Labours by Lysippus, besides that under consideration. His see Earleyerates made a similar statue at Delphi (Overbook, Scar, Qu. 1488-77; Plin, N.H. xxxiv, 66).

Lysippus then popularized the type of Heracles with the apples, but he did not create it. As we have seen, it appears in some fifth century works, and in one or two belonging to the early fourth century, it but in all the apples were accessories. Certain reliefs, however, suggest the possibility of the existence of another type in which they were more prominent. By far the most important of these works, and the only one which calls for discussion in detail, is the Capitoline Basis, if one side of which is here reproduced (Fig. 1).

An archaizing work of a late Greek sculptor, in the Basis is of considerable importance as reproducing early types far more nearly allied to sculpture



Fro. I. (From the Capitoline Basis.)

in the round than to ordinary relief work, notably in the unimportance of the accessories and the prominence of the hero, whose figure stands out strongly from the background. In the scene of the gardens of the Hesperides he appears facing the spectator, and resting his weight on the left leg, with his head turned towards the right hand, which is upraised to pluck the apples. More sculptural in type perhaps than any other on the Basis, the figure at once suggests the possibility that works in the round may have

<sup>18</sup> The marble is Greek, described in the afficial extalogue as Pentelle.

W For pre-Lysippie types of the fourth contury, see Roscher, Loukon, pp. 2164-5, to which should be added Ameling, Man Chine. Pl. LXXXVII. The Bearilless Herakles with the applies does not come within the scope of this paper.

Bailly reproduced in Visconti, Mos. Pic-Climi, iv. 19, \$11-111, there are careful wood-cuts in Righetti ii. 274-5, which are reproduced in Sanderoldenick & Denkantler, 589-70, a publication which I owe to the

courtesy of Dr. Amd), who considers scalptural types to materies the figures on the Basis. For the present illustration, the first photographic reproduction to be published, I am included to Mr. A. J. B. Wass of the British School in Rems. The Basis is placed in a very bad light, which made it difficult to obtain a satisfactory negative, so that it has been moresany to strengthen the photograph.

existed in which the same motive was adopted, the tree being, of course, omitted. Yet among over 400 figures of Heraeles given in M. Reinach's Statues Antiques only one, the Heracles Albani, restored as holding a bowl 34 can from the position of the right arm 16 be connected with this holding of the apples. This will be discussed later, so we can now turn to the coin types. Here again one figure only can belong to the type, a statue reproduced on twocoins of Corinth.16 both representing the same work, a figure of Heracles standing in an attitude of repose and holding on his left arm his club and lion skin. The right hand is raised, but owing to the poor condition of both coinsthe motive is obscure and has remained unexplained. The bow is unsuited to a figure at rest, the bow placed in the hand of the Albani Heracles has no authority.17 and the wreath held in his upraised hand by the young Heracles on the coins of certain Greek kings of India 18 does not suit here, as the arm is not sufficiently bent towards the head, nor is the motive. though appropriate to the conthful Praxiteleon type of these coins, convincing in connection with the bearded Corinthian figure. If, however, we restore the right hand of the latter with the apples, we get a dignified and adequate motive, with the abrapasia of all Greek sculpture of a good period; it has nothing of the reliance for effect on the external pathos of weariness which belongs to the conception of the Lysippic Heraeles. On one of the coins the figure is grouped with the Armed Aphrodite of Corinth. 300 on the other with her and the Poseidon of Cenchreae; " therefore, 'as two of the deities in this group are copied from statues, there is a presumption that the third is also. 21 That the original was a work of note is clear from its. recurrence on the coins in connection with two of the most famous works in Corintb. The pose is unquestionably Polycleitan, both in the position of the legs and the balance of the composition, and, poor as the coins are, there is in the figure a marked absence of the massiveness of build and somewhat theatrical lassitude characteristic of the Lysippic and later conceptions.

A bronze statuette in my possession (Fig. 2) here reproduced on the scale of the original, further illustrates the type.25

The statuette was, it is stated, found by the late Mr. Sandwith in Cyprus, and included in the sale of his collection, when it was bought by the

<sup>14</sup> There is a replies of this work in the Vatican, of which only the terse remains (Mes-Cheer, Pl. LXXIV, No. 581).

"The common type of Heraules brandishing in his right hand club or low does not call for consideration here. It is quite unmistakeable, and usually goes with violent action on the part of the figure.

\* Num. Comm. F urv. FF xttt.

<sup>17</sup> A drinking wessel is never held on a level with the head by a standing Reracles, but belongs to the seated or reclining type and to the Ribar of debased art.

18 D.M.C. Buctriu, Pl. VI. &c.

19 Aug. Comm. Pl. PF XIII.

# M. Fary.

H M. pp. 17, 26,

It is worthy of remark that the conception of Hernoles as a small man—people Spayes—was known to Pindar (John: iii. 190), so that nolessal size would seem to have been a later development parallel with that of impressed muscular force. Philostrates (Oyan. 35) definitely reverts to the older and less exaggerated ideal, as contrasted with the ultra-by-sipple type dear to Roman smatters.

The figure leans somewhat too much to the right in the cut, which throws out the balance-

of the composition.

dealer from whom I procured it. Though of Graeco-Roman date, the work is unusually good. If and despite the loss of the right hand and the lower part of both legs, well preserved. The hero stands on the left leg, with the right slightly bent; his head, covered with short close locks (not the conventional Heracles curls), is turned towards the missing right hand, which was raised. The eyes are in shadow and the face is carefully modelled, but there is of pathos not a trace. The treatment of the body is unusually line for the class of work, with no exaggeration either of pose or muscle; the



FIG. 2.—BRONZE STATURITE OF HERACLES.

modelling is schematic rather than realistic, and is marked by unobtrusive care for the general effect rather than by the anatomical emphasis of detail characteristic of post-Lysippic work.<sup>25</sup> The liouskin and club on the left arm are finished with great care, but they are genuine attributes, not the mere decorative accessories frequent in later types. A comparison

to the earlier part of Lysippus' career. His arristic activity ranging from a 308 (when Troilins won his second victory) to a 312 (the portrait of Sciencia I. as Baccasis), we can understand the difference between the Agias and the Hellenistic treatment of the Heracles Farness, which corresponds with the Lysippus of literary tradition.

This is especially true of the details, such as the locks of the lion's more and the fingers of the left hand.

It is time that the statuette is not unlike the Agias, but in that figure Lysippus was working on definitely traditional lines; its Polyeleitan affinities are marked (Mahler, Polyhles w. serve Schole, p. 151). Moreover, the Agias, as an athletic work, would belong

with the coins shows a minute correspondence between the two, so and suggests that the Corinthian statue, a famous work as we have seen, was copied in the bronze, just as the Lysippic Heracles of the Farnese type is reproduced in various statuettes. That the object held in the right hand was small may be inferred from the absence of any trace of it on the coins, so that, even without the evidence of the Capitoline Basis, the apples would be an obvious restoration. The modelling of the right arm of the statuette makes it certain that the hand held nothing which involved a strain, consequently

the apples are again appropriate.

The pose of the statue suggests Polycleitan work, and the character of the statuette, despite the later influence visible in the head, confirms this view. The schematic treatment of the body with its simple and well marked lines, the powerful hip-sockets, the modelling of the back with its strong inward curve above the glutci and the depression in their sides, are, like the pose and rhythmic movement of the legs, purely Polycleitan. We have in a statue in the Chiaramonti Museum an interesting example of a Bearded Heracles of this school, certainly post-Polycleitan, but strongly influenced by the master's work. It is of especial interest in connection with the statuette as it also combines a Polycleitan body with a head of fourth century type. The likeness here is indeed close; there is the same treatment of the hair and beard in short wavy locks, the same broad nose and eyes set wide apart, the same absence of pathos-a sure indication of pre-Lysippic work in connection with the subject. Two other Polycleitan works are of importance, from the fact that their pose is very similar to that of the statuette, though, both being youthful figures, minute comparison is impossible. In the Westmacott Athlete,20 Furtwangler's Kyniskos, and in the youthful Heracles of the Arundel Marbles, in the Ashmolean Museum, 32 the raised right arm occasions a play of muscle and a balincing of the figure closely resembling that in our statuette, but it is interesting to find that the latter lacks the weak points of the statues, the exaggerated line down the middle of the body and the over-heavy hipsockets,38 while all their strictly Polycleitan points recur in the bronze.

The only differences are that on the coins the Bonskin is flang over the shoulder (whereas in the statustic it hangs from the appearan) and the Skand- and Spiel-bern are reversed, But dis-cutters are notocionally careless in matters of detail, of which one of the coins in question offers an instance. On Nam. Comm. VF XIII the Armed Aphrodite holds har shield to the left, while on a whole evice of others she holds is to the right (V civ, G cxxii-cxxvi).

<sup>#</sup> Amelung, op. att. Pl. LIL

Furtwangler, Meistern. p. 510; Mahler, op. cit, p. 164.

It is a curious fact that all the Heracles statues which have been attributed to Scopes

are of the youthful beardless type, and both those known to be his, the head recently found at Togos and the statue represented on coins of Sieyou, were the same.

Mahler, op. cot. p. 44, with list of replicas.

<sup>31</sup> Melstern, p. 457.

I have to thank Professor Gardner for calling my attention to this interesting work (No. 32 in the Ashmalean, Mahasile, No. 59). The cut in Clarac (Pl. 790 No. 1970 A) is misleading, as it gives Guelli's restorations, now removed.

The soft treatment of the abdomen in the youthful figures is non-Polycleifan, but naturally does not occur in the statuette, which represents a more advanced age. The Arundel

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The conclusion then would seem to be that we have in the statuette a copy of a Heracles of the later Polycleitan school erected at Corinth, holding aloft the apples of the Hesperides, a motive found in the Capitoline Basis, which appears to reproduce fifth century types. The same motive may give us the clue to the restoration of the Heracles Albani, a post-Praxitelean adaptation of an earlier conception,34 when the instinct of the sculptor was no longer satisfied with a simple representation of the hero bearing the apples, but must add an elaborate fillet—the sign of victory to complete his meaning, reduce the club to a plaything, and turn the lionskin into an effective piece of drapery. In the statuette there is none of this dramatic appeal to the spectator, and, small as it is, there is in it. something of the dignity of the original. Its provenance cannot be dwelt upon, as its presence in Cyprus must have been the result of accident, but type and school are alike interesting, and its positive merit is considerable, its relative merit great, when compared with the mass of Graeco-Roman bronzes. Other works may well exist which would, if published, further illustrate this suggested form of the myth of Heracles and the golden apples: the justification of the present paper must lie in drawing attention to the type, in the publication of a bronze which throws light on what must have been one of the great statues of Corinth, and in an accurate reproduction of part of a work so important and so neglected as the Capitoline Basis.

K. A. McDowall

Heracles, like the athlete, probably held a wreath, a motive used, as we have seen, for the yeathful type on cains of the Greek kings of India.

H Fortwangler, Melateric. p. 575.

### TOPOGRAPHY AND EPIGRAPHY OF NOVA ISAURA.

IF any confirmation were required of the evidence supplied by the first inscription published in the J.H.S. 1904, as to the ancient name of Dorla, it would be found in the Roman accounts of the siege of Isaura by Servilius. Isauricus. Frontinus, iii. 7, 1, says that Servilius compelled the city to surrender from thirst, fluming ex quo hostes aquabantur averso. Now there are very few cases in which such an operation is possible. Three conditions must be fulfilled: (1) the city must be dependent for its water almost entirely on a river flowing through it or close to the wall; (2) there must be open ground on the opposite side of the river towards which the water can be diverted; (3) the operation must not be on so great a scale as to be beyond the power of an army such as Servillus had with him, a comparatively small and rather lightly equipped force, able to cross the Taurus from Cilicia, and operate on the northern flanks of the mountains. Tarsus, for example, in ancient times fulfilled at least two of those conditions; the river flowed through the city and could be diverted without very serious difficulty by an operation which was quite within the power of a Roman army. But, on the other hand, there is every probability that Tarsus was sufficiently supplied with water from wells to enable it to hold out against a siege, as the soil yields water everywhere at an easily reached level below the surface, so that the loss of the river-water would indeed be inconvenient, but not decisive in a military view. It is impossible that a large city like Tarsus could be supplied solely from the river, because the river-water would necessarily become to some degree polluted in its course through the city. The wells must have been in permanent use within the city. Again at Dinorna, where Prof. Sterrett placed Nova Isaara, the city was not dependent on a river, for the obvious reason that neither of the streams there is capable of supplying it with water. They were both quite dry when I passed through the place in 1890; and at no time during the summer can they ever carry much water, I believe that they are almost dry great part of the year. The city at Dinorna, like Tarsus, was undoubtedly dependent more on wells than on a river.

This paper was intended to follow the one by Miss Ramsay on The Kerly Christian Art of Nove Laure, J.H.N., 1904, p. 200 ff., but

was crowded out. The numbering of the inscriptions is confirmed from that paper.

But at Dorla all the conditions are fulfilled. The aucient town of Isaura was situated on the high ground on the right side of the stream (which flows here north, and slightly east; not north-west, as Kiepert has it), and extended at least down to the river bank. On the left, or west side of the stream, opposite the city, an isolated hill rises in the midst of the valley. It would be an easy operation for Roman soldiers, accustomed to the use of the spade, to divert the river a few hundred yards above the city and make it flow on the opposite or western side of the isolated hill, entirely out of reach from the city. In its present and normal course the river would touch Isaura only for a short distance, and was thus less liable to pollution. It flows throughout the year with a good supply of water for the city. The city for the most part lay on the broad ridge east of the river, which slopes back very gently towards the last eastern ridge of the Isaurian mountains. The surface of this ridge must lie high above the level of the subterranean waters. Wells would here require to be deep, and could not be quickly made.

Further, Sallust in a fragment of the Histories mentions that Servilius occupied a mountain within javelin-throw of the city (montem ex quo in forum oppidi teli coniectus erat occupavit sacrum Matri Magnae).<sup>2</sup> This 'mons' is evidently the isolated hill on the left bank of the stream. From this hill the lower part of the city could be reached by javelins; and it is quite natural and probable that the forum (assuming that this conjecture is to be adopted) may have been in that part of the city. The hill rises from the left bank of the little river, and we understand that the city wall bordered

the right bank.

The holy hill of Cybele, the Great Mother, therefore, was outside of the city; and was in all probability employed in Anatolian, non-Hellenic fashion as a cometery. The dead returned to the mighty mother who bore them, as the Lydian chiefs, the sons of the Gygaean Lake, were buried on its shore, according to Homer; and it has been repeatedly shown that this idea is peculiarly and almost universally characteristic of native Anatolian religion. The way from the gate of the city, crossing the stream by a bridge at the same place where the modern bridge stands, and ascending the hill to the temple, was bordered, doubtless, by a line of graves the whole way; and thus the Greek fashion was united with the Anatolian; but besides that, it is probable that the whole hill around the temple was full of graves.

The Temple of the Great Mother, where on certain days she came to feast, was replaced by the Church, parts of which can still be seen amid the houses on the summit: it was impossible for us to tell how far the walls of the Church might still be traced, as careful exploration amid the houses was not within our power. It is unfortunate that the modern village is for

and uncertain, et in es credebatur spuluri dichus certis des, etc.

<sup>\*</sup> The MS, reading is fugure opposit. Forum is Hamber's emendation. Monument suggested tage. The last may be right: sugare would mut the single broad ridge on which the city atood better than suga, but the plural may be applicable. The sequel of the text is marilated

<sup>&</sup>lt;sup>2</sup> See e.g. remarks by the present writer in B.C.H. 1898, p. 236; Cities and Blake of Phrygia, i. pp. 100 f., 361, 367, etc.

the most part built on the hill, covering up the most interesting ruins. Even as things are, there can be little doubt that £100 or £200 spent in excavation would reveal many of the ancient grave-monuments. The account given by the inhabitants unanimously is that in the open spaces between the houses the upper surface of soil, about four or five feet deep, covers over a mass of cut stones. The tomb of the Bishop Theophilus, No. 2, was evidently a monument of large size; and perhaps several, or even many, of the component stones were inscribed (No. 58 may belong to this monument).

Beside the great church on the top of the Hill of Cybele, there were of course others in the city. One of these doubtless stood on the site of the present mosque, close to the bridge on the left bank of the stream. It has been rebuilt, and the walls are full of tombstones; I imagine that nearly all of them are Christian, and that the city was entirely Christian in the fourth century. While the outer walls of the mosque seem to be rebuilt, the inner door is probably pre-Turkish. The stones of which it is composed are dove-tailed (if the word may be used, where the form is so completely altered) in a very intricate style, which I take to be Byzantine. In the vestibule of the mosque, under the thick modern coating of white-washed mud-plaster, where this has partially scaled off, there appears an older coating of stucco, moulded in elaborate puttern, which I take to be Seljuk or early Turkish. Photographs of this pattern proved unsuccessful.

The situation of Nova Isaura, as now determined, illuminates the true character of the campaign of Servilius. Thinking of the enterprise as a mountain-campaign, I always found it a quite remarkable and hardly credible achievement at that period. Now an easier line of march is indicated as

the probable one.

It was possible to advance on the Isaurian country from a basis in Roman possession either directly from the south coast, or from the Province of Cilicia, or from the Province of Asia. The first of these three routes may be set aside as improbable; the country was too difficult for an army, and offered too many opportunities to the natives to attack and destroy the invader in positions where not a blow could be struck or a weapon hurled in reply. The least difficult road would go round by Laranda, and thus would fall into the second route.

The second route would traverse the Cilician Gates, and pass through Cybistra, Laranda, Ilistra, and Derbe. Now Servilius, as Sallust says, captured another city, before he came to Isaura Nova; and if he had advanced from that side, the former must have been Derbe. No allusion to Isaura Palaia would in that case be contained in the fragments of Sallustthat we possess.

The third route was from the Roman province Asia by the valley of the Macander. Strabo, p. 568, mentions that Servilius captured both Isaura Palaia and Isaura Nova. Cicero, de Lege Agr. ii. 50, says that he added the ager Oroxadicus to the Roman territory: this must be the territory of the tribe Orondeis, north-west from the Isaurian country and near Lake Karalis.

(Bey-Sheher Lake). This might suggest that the line of advance was from the Asian side by Apameia, Apollonia, and Pisidian Antioch; and in that case the city which was captured immediately before Isaura Nova would probably be Isaura Palaia. But Sallust's description of the capture of that city through want of water does not suit well with the situation of Isaura Palaia (as Professor Sterrett has rightly pointed out, Wolfe Expedition,

p. 151).

Accordingly the probability is that Servilius advanced from the eastern side by Laranda and Derbe, capturing the latter by thirst, which is entirely natural in its situation, thereafter advancing to Nova Isaura, only six or seven miles to the west. Thus he gradually penetrated the Isaurian country and proceeded to reduce also the Orondeis, before he returned to Cilicis (probably through Pappa and Iconium). He did not advance further to the north-west, because beyond Pappa he would soon come to the territory of Pisidian Antioch, which at this time was autonomous (Strabo, p. 577). The campaign, as thus pictured, suits with the fact that Servilius (as both Orosius and Eutropius say) ranked as administrator of the Province of Cilicia at this time.

It is also evident that Nova Isaura was founded (or grew to importance), because the site was in the nearest part of the Isaurian land to the open plain of Lycnonia and the great routes of communication that pass across it. Palaia Isaura always had been, and continued to be, the great fortress of the Isaurian territory. Nova Isaura in its delightful and convenient situation grew under the Roman rule from a village (as Strabo, p. 568, calls it) to be a bishopric. It struggled to maintain its rank as a city and bishopric independent of Palaia Isaura; and Basil of Caesareia favoured its claims; but it was forced to sink back into dependence, and an imperial decree (probably passed by Zeno about A.D. 474 and confirmed by Justinian) recognized and confirmed its dependence. This topic is discussed in an article on Lycaonia (Oest. Jahresh. 1904 Bb. p. 77 f.).

The territory of Nova Isaura included, besides a tract of hill-country wholly unknown, the land of the modern villages, Dinek, Dinek-Serai, and Alkaran or Algeran. Dinek lies almost due west of Dorla, about two or three miles distant. Dinek-Serai is north-west of Dorla, and two miles north of Dinek, on the high south bank of Tcharshamba-Su, with a good bridge. Alkaran lies nearly due north of Dorla, almost eight kilometres distant, Seven kilometres north-north-east of Alkaran is another bridge over Tacharshamba-Su, called Baltcha-Assar. Here a village of Roumelian refugees was built in 1902. This bridge lay outside Isaurian territory, in the open Lycaoman plain; and everything here is different in kind and period. To show how different are the remains of an ordinary Lycaonian village of the plain from those of Isaura Nova, I add at the end the series of inscriptions from Baltcha-Assar. They belong to the fifth or following century,

The reason why the art and writing of Nova Isaura came to an end

See Peridia and the Lycannian Frontier, § 9, § 22, B.S.A., 1904, pp. 254, 266.

about 400 to 450 a.b. is obscure. We must connect its fate with that of Korna, also a bishopric until shortly after 381. Both towns have a similar situation; both were important under the Roman Empire; both ceased to be bishopries during the fifth century. The culture and art of Nova Isaura ceased along with its independent rank.

39.-Dorla. R. 1901. Letters worn, faint, and hard to read.

ΤΩΝΠΑΟΙΦΙΛΟΝ τον πάσε φίλου ΚΕΗΔΥΕΠΗ κὲ ἡδυεπῆ ΥΥΧΗΝΤΒΚΕ ψυχήν τ[ε t] κὲ ΚΑΙΔΙϢΝΑΡΔΕ $\lor$ Τ κα[τ' tα]ἰδυαt ΕΝΤΙΜως ε[... ΤΞΕΑΝΤ τ[ή]σαντ[α

ψυχήν, which is here used in the sense of a man, person, is construed as masculine. I sought vainly for this interesting inscription in 1904: the stone was reported to be destroyed. It seems to be complete, and 1.4 seems to hide the name of the deceased, while his office is described in II, 5, 6. The epithets  $π\hat{a}σ_i$   $φ(λο_i$  and  $δυεπή_i$  are given to bishops in Nos. 2, 3, 4; but δ[πισκοπή]σαντα does not suit the traces here well; and  $δντίμω_i$  implies a lower office, see No. 4. The inscription is one of the latest, with square  $\Box$  in one case at least; and the epithets formerly applied to bishops have here perhaps degenerated so as to suit a lower ecclesiastical office. The stone is perhaps of the fifth or sixth century.

40.—Alkaran: in the south cemetery. R. 1904: in three parts, one of which has not been found.



χηρῶν ὀρφανῶ[ν ξ΄νων ταλαιτώρων ἀρωγός, [name of deceased, and perhaps his father πρεσβύτε[ρ]ος τῶν ἰ[ερῶν ἀναλω—(or χρη-) μάτων

μ(νήμης) (χ(άριν)

We found the left-hand fragment of this stone first. The unusual interest of the inscription was evident; and, in the hope that the other parts might be discovered, we sent to the village for implements, and proceeded to dig round the grave and to examine every scrap of stone of the same colour. After a time the central fragment was found; but the rest remains unknown.

Except for the name of the deceased, however, the run of the text is apparent. The stone stood on the grave of a presbyter, probably of Isaura Nova; he is defined as having the duty of superintending the church expenditure. Prof. Cumont suggested πραγμάτων; but probably ἐπί would be needed with that word, whereas ἀναλωμάτων can be better used without ἐπί. I sent the inscription to him as soon as I found it, and our restorations of line 3 were made independently. The restoration of line 1 is due to Prof. Cumont. Prof. A. Souter, to whom also I sent the text, suggested independently [καὶ ταλαι] in line 1; and this may be right, as the other restoration is too long, if the garland was exactly in the middle of the stone. But the garland may have been a little to the left and then there would be room for [ξένων ταλαι], which is on the whole preferable as a reading.

The first lines give the character of the deceased presbyter as a Christian; the third defines his duty as an official, and shows that in this region, as early as the middle of the fourth century (the probable date of this inscription, see 41, note on line 7), the presbyters in a city had special kinds of duty assigned to them. This suggests that the clergy were already separated as a distinct order from the laity, which accords with the inference drawn from the use of lepeus and apxiepeus in the note on No. 41, line 2. If the Acta of S. Theodotus of Ancyra be authentic, the separation of the two classes was not complete in a rustic part of Galatia about A.D. 300; but North Galatia was beyond doubt less advanced in development than Lycaonia at this period. In the Byzantine time, however, Galatia and the northern regions of the central plateau advanced rapidly in importance, while Lycaonia retrograded.

Prof. Cumont compares with the remarkable title in line 3 the phrase used in the Apostolic Constitutions, ii. 35: διαικητής τουν πραγμάτων

έκκλησιαστικών.

The use of the garland in this rude form on tombstones of Isaura Nova seems to be a characteristic of fourth century work, and especially about 350 or later; see Nos. 19, 22, 26. In No. 2 we have an earlier and better form, and in Nos. 3, 4, an intermediate form.

41.—Dinek-Serai. R. 1901: engraved on a stone in the common Phrygiau form of a sepulchral altar. The stone has been split down the middle: the left half (a) is built into the wall which surrounds a small garden, and the right half (b) forms part of the pavement beside the door of the house within this garden. The letters are difficult to read, being very faint; and the position of part (b) is such that it is impossible to get a close view of the letters except upside down. I had only taken a first hurried copy of the two parts, when the owner, who had already been paid too liberally, refused to permit further work, unless I gave him ten pounds. As

<sup>\*</sup> Sue Histor, Gungr. of Asia Minor, p. 74 f., Arch. Jahreshefte, 1904, Beih, pp. 91, 105.

<sup>\*</sup> I was copying part (b), and had not finished, when my men tald me they had found part (a). I went to see it, found it was (as they suspected)

a piece of the same gravestone as (b), and made a first copy of it. When I proposed to return to (b) the owner interfered; and to save long delay and bargaining or force, I desisted.

the inscription seemed to be a mere metrical epitaph of the usual valueless kind, I was loath to bargain with him, all the more so, as he would have been hard to deal with. If however, the partial restoration here given is correct, the epitaph is an important Christian document of the fourth century, and ought to be recopied. It is to be found at one of the most western or south-western houses in the village. In the circumstances I cannot guarantee that the size of the gap between the two fragments is accurately indicated in every line. In 1, 8 there is no gap, as H is divided. Many of the suggested restorations are quite uncertain.

# ENEHWHAPIONTIO // OEXAIPEN

ENGICE VAEMOIX AFPEA// OTTPOCEAD
EECCIMA O WNAECA O C//JCOTINECT WPA

5 ΤΕΡΟΟΜ ΤΡΙΨΝΧΗΓ// ΨΝΕΠΑΡΙΚΙΤΟΟ ΚΡΑΤΙΗ Ο ΔΙΑΚΟΝΟ / (CECΘΛΟ C ΠΟ Η CΘΗ CAYPOCEΠΑΡΧΙ// Ι CΕΠΙΛΕΚΤΟ C ΔΟ ΑΝΙΟΥΟ ΔΙΔΑ CΚΑΛΟ CH// Η ΙΘΕΟΙ CIN ΚΑΙ COΦΟ C CCCI ΔΙΑ CΠΟ Ο CEΠΛΕΤ// ΟΠΙ CTO C- Η ΓΕΜΟ CIN Z

10 ΑCΙΔΕΜΥΡΙΑΦΥΛΑ ΚΑ// ΜΝΗΟΘΕΙΟΦΙΛΟΤΗΤΟCEM
Η COΦΙΗCΤΕ /CTIC ICU// ΜΟΙΟΤΕΝΑΧΏΝΑ ΟCU
ΝΠΑΛΙΧΑΙΕΏΝΛΗΜΕΤ//ΕΡΗΟΦΙΛΙΗΟ ΕΜΝΗΜΕΝΟΟ
ΑΠΑΠΑΝΤΑ / ΤΗΝΟ // ΜΝΗΝΦΙΛΑΔΕΛΦΟΝ

OT THN //HAEDIAHNAAAAEIN
//HNENKPATIHCOIKONOMONC

15

// MHCICXAPINOEPATIENA //OCENYMNOICATENCENATIOCOEI // MATAKAAAIIACOYCIKAIECCOMEN

έλπίδα τήνδ'?] ένέπω παριόντι φ[ίλοισί τ'ί]ε χαίρειν. έν ταύταις? ί]έρενεν άρο[ύραις?

καὶ σοφός | επλετο πιστός
10 ήγεμοσιν ξ[ | συμπ \*| βαι δὲ μύρια φύλα.
καὶ μνησθεὶς φιλότητος ἐμῆς | κεδυ \*| ῆς σοφίης τε
ἔ]μοὶ στενάχων \*Α[ιδ]ος [ | ]ν πάλι χαι[μ]ων
ήμετέρης φιλίης [μ]εμνημένος | απα πάντα
τὴν σεμνὴν φιλάδελφον [ | ]οπ[ ]την
15 ή[δ]ὲ φί[λ]ην Μαμμεῖν [ |

]ην ένκρατίης οίκονόμου
μ[νή]μης χάριν δ[ς] ρ | ]ος έν θμνοις
τεής οτ τ[ρ]ησεν
μνή[ματα καλλιάσουσι καὶ έσσομεν[οισι πυθέσθαι 1]

The epitaph opens with an apostrophe to the passer-by: this is an archaic fashion, and would not be likely to persist after the fourth century. In the note on line 7 it is shown that the probable restoration implies a date earlier than 372.

Then follows a description of the deceased, who was a priest in the land of Isaura, a presbyter, helper of poor widows, having also been deacon, select treasurer of the Pisidian Province, teacher to the youth, wise, etc. His dear wife, well-remembered, survived him: her name was Mammeis, a name of the earlier type. Some others united with her to make a beautiful tomb for posterity to ask about. One of these others became an oikovôµos for the same teason as Nestor was made a deacon, on account of his self-restraint and continence.

- 1. A metrical variation of the prose formula ἐλπὶς τοῖς παροδείταις χαίρειν, or χαίρειν τοῖς παροδείταις or παριοῦσιν. The length of the gap between the two parts of this line is uncertain: according to my copy there appear to be only one or two letters lost; but a fresh copy, more careful than my first hasty, unrevised, and merely provisional copy, is much needed. In the circumstances I could not easily estimate the gaps.
- This is the first line at the top of the stone, separated from the rest by moulding.
- 2 [I] έρενεν is a probable restoration. The terms lepeύs and ἀρχιερεύς were used by the Lycaonian Christians in such a way as to imply that the distinction between clergy and laity was familiar when this class of inscriptions was engraved (probably the fourth century). On ἀρχιερεύς in Lycaonian Christian usage, see the writer's note in Ocsterr. Jahreshefte, 1898, Beiblatt, p. 95. lepeús and lepeúsiv as Christian occur often, see Ath. Mitth. 1888, p. 236, No. 7 (where 1 failed to perceive that the description of the father as simply lepeús must be taken as showing that he was a Christian priest), Cronin in J.H.S. 1902, p. 362.
- 4.—The inscription seems to have begun by giving a line to each hexameter (as in No. 1); but soon it was found that some lines were not filled by the hexameter; and the word κείται from the fifth hexameter seems to have been added at the end of 4. The Λ after Νέστωρ is probably falsely copied: it should be only /, the symbol marking the end of the hexameter (as in lines 11, 13). This is one of the faults which would certainly have been corrected, if revision of the rough copy had been possible.
  - 5.—The correction έπαρ[ωγ]ος seems certain. The copy shows τ

crowded against the preceding I in such a way as to make Γ probable. Thus the line is a mere metrical variant of the prose expression in No. 40; and it may be regarded as almost certain that the prose formula is older, and that the metrical form took its origin shortly after (just as the epitaph of Aviroins Marcellus of Hieropolis Phrygiae was within a few years imitated by Alexander\*). Probably No. 40 and No. 41 belong to the same half century, and were engraved on the graves of two presbyters of the church of Issura Nova. The name Nέστωρ is too short for the gap in No. 40, line 2; and a different name containing 8 to 10 letters is needed there.

6.—[έγ]κρατίης for έγκρατείας is probably to be read here, as in line 15. In the fourth century the word has probably no reference to the Enkintite heresy; nor has it any extreme sense, as Nestor was evidently married. In an inscription of Laodiceia Katakekaumene, a certain Orestina is described as ἐγκρατευσαμένη, which term there must be much the same as παρθένος in several Lycaonian Christian inscriptions.

7.—The name of the Eparchia is unfortunately lost. The word must have been either Λεκαονικής (an improbable form), or Ἰσανρικής, or Πεισιδικής, or Γαλατικής. The first two are excluded by metrical reasons, as the village poet who composed this epitaph seems to have a better idea of metre (his worst fault is οἰκονομον Ι. 15, which must be scanned either or more probably \_\_\_\_\_.). The last is excluded by the date: Isaura Nova cannot have belonged to Prov. Galatia later than 297, if so long as that π all probability it was in the Tres Eparchiae from the second century onwards. There remains only Πισιδικής, which might here quite reasonably be scanned as a choriambus for metrical convenience. Now Pisidia Provincia included Iconium and Lystra from c 297 to c, 372 A.D.: and though we should hardly have expected Dorla to be included in that province, yet this restoration if correct would prove that it was, and the connexion is quite possible. Hence probably this epitaph was composed before 372, while it certainly cannot be much older than that date.

10.-ξ[είνοις τε] seems unsuitable.

19.—The final tag is common in such epitaphs of Central Asia Minor.

42.—Dorla. R. 1901.

MAMACKEDHMHTPIOCEKOC MHCANCADANTONTPECBY TEPON Μαμάς κε Δημήτριος έκοσμησαν Σαδάν τον πρεσβύτερον

<sup>\*</sup> C.B. H. p. 729 ff.

<sup>\* 4</sup>th Witth xill 1888, p. 272. Prof. Sterrett wrongly assigns it to Koula (Epigroph Journey, No. 217). He did not see the stone. I copied it in Ladik in 1882. Sterrett's No. 217 and No. 216 are sugraved side by aids on one atom: he has been misled by the bad copy.

of Dr. Sabe Diamentides into the false form Orestin instead of Orestine.

<sup>&</sup>lt;sup>36</sup> Ismura Palaia was included in the Tree Eparchiae from c. 137 anwards. Iconium and probably Lystra were in Prov. Galatia antil about 297; but probably Issura Nova went with Derbe and Isaara Palaia in the Tree Eparchiae.

43.—Euren near Dinek. R. 1901.

MHCENCEPEIAIONTONAHEAGON

Δόμυος όμολογητής έκόσμησεν Σερείλιον του άδελφόν.

The letters are late in style: the inscription cannot be earlier than the fifth century. Dinek seems to have been a village of the territory of Nova Isaura.

44. - Dinek. R. 1901. Fountain. Late letters, rude and faint.

NEONTOAEMOCIE//// FYNAIKAKAIDYPTANX////

Relief : horseman.

Νεοπτόλεμος ἶε[ρεὺς Βᾶν Γτὴν γυναῖκα καὶ Οὐρ τ[ή]ν [μητέρα Γ

AKKANTHNE

κέ 1] 'Ακκαν την έ[αυτοῦ

The term lepeus here may denote a Christian priest; the inscription is probably too late for a pagan priest to mention his office. On lepeus in Christian inscriptions of Lycaonia, cf. Mr. Cronin in J.H.S. 1902, p. 362.

45.—Alkaran. R. 1901, 1904. On round cippus in cemetery northwest of the village.

> MNHMHEXAPIN KONWNOC //////ICTÅ

ανήμης χάριν Κόνωνος [προ]ιστα[μένου]

μνήμης χάριν seems to be here a translation of in memoriam at the beginning of Latin epigraphs and not used after the fashion of the usual Greek formula which comes always at the end of the epitaph. Konon is one of the official Proistamenoi whom Basil, Epist. 190, advised Amphilochius to appoint in the small towns dependent on Isaura Palaia, before a new bishop was appointed in that city. It is not improbable that Konon may have been appointed by Amphilochius in the village or town whose remains are seen on the left of the road to Baltcha-Assar-Keupreu, near the bridge. This dating would suit the lettering, which is midway in style between the usual Isauran forms and the late letters of No. 43 or 44.

46.—Dorla. In the mosque. R. 1904.

Κ] Λαυδία έκοσμησεν Α[ύμ.] Θαλ-.]αιν του ἄνδρα αὐτῆς οἰκου]όμου ἔντειμου μνήμης χάριν

If the restoration Avp. is right (as seems highly probable), the epitaph can hardly be later than the fourth century, and might very well belong to the third. 47.—Doria. R. 1904. Naης ἐκόσμη[σε]ν Εἰούλιον. Underneath is an incised garland. The first name may possibly have lost some letters at the beginning (e.g. ['Λθη]ναής); but this is improbable. Naês (i.e., Nais) would be a Hellenized form of the native name Nas or Enas, see Git, and Bish. i. p. 269, No. 91.

48.—1)orln. R. 1904. Two miles south-east from the village. Navna Naλημιος. Underneath is ornament, pair of rosettes between columns, no pediment above the columns.

49.—Dorla. In western cemetery: R. 1904. Complete on right, and top.

////AHPO ///YTQYA ////ENTOAHN ////VTO////TY ό κ]ληρονόμος α]ότοῦ 'Αμᾶς κατ'] ἐντολὴν αὐτο]ῦ τὸ[ν] τύ[μβον μ. χ-

50.—Dorla B. 1904. [ή δείνα έκοσ]μησεν το[ν άν]δρα α[ύτ]ῆς Δονγείνον [μ.] χ.

51.—Dorla. R. 1904. Αὐ[ρ]η[λία |] ἐκόσμησεν τὸ[ν] ἀδελφὸν Νέστορα.

52.—Doria R. 1904. Αύρ. Α[ν]σινόη ή καὶ Ματρώνα Φλ. Σεισαμάου συνή.

The name Flavius, abbreviated like a praenomen, is characteristic rather of the age of Constantine than of the Flavian dynasty 69-96 A.D.

53.—Dorla, R. 1904. Τυλλία Δάδα Μακρί[ν]ου θυγάτηρ μ. χ. Swastika under the inscription.

54.—Dorla: Stels in the mosque wall: H. 1890.

ΦΑΝΑΛΟΕΚΟCMHCENTON ΑΔΕΛΦΟΝΤ//AMON Φαν[α]λ[1]ς ἐκόσμησεν τὸν ἀδελφὸν Τ[τ]αμον

Φαναλίς seems to be a Grecized form of Οὐαναλίς or Βαναλίς, No. 69, a common Isaurian name.

55.—Dorla. R. 1901.

# F ALLOVA OCOYANHCEKOCMHCE TOYATAAONFINIATHNAAEAGHNAYTOY

. Γαι . Ἰούλ[ε]ος Οὐάλης ἐκόσμησε Ἰουλία Λουγινία την άδελφην αὐτοῦ.

Valens is a name which might spread either from imperial dynastic reasons in the second half of the fourth century or from non-dynastic causes as a common Roman name with military associations at any time. C. Julius might be in use at an early and a late time. In the fourth century the name Julius revived in use owing to dynastic causes. The whole name C. Julius Valeus is more likely to be of the late fourth century style. His daughter Julia Longinia is put ungrammatically in the nominative (cf. No. 56).

56.—Dorla. R. 1901, 1904.

No letters seem to have been lost at the beginning of line 2. Probably we should read πᾶσι φίλου, an awkward epithet of the buried person (compare the false construction in No. 55) rather than Πασίφιλου as the name of the buried person. The extremely rude indication by incised lines of a smith holding tongs over an anvil was evidently cut after death as an indication of the occupation of the deceased. On the other hand the more elaborate and skilful ornamentation of most of the tombstones was done by trained artisans in the shop, before the stone was sold. The simple nominative of the deceased's name occurs also in Nos. 63, 65, 66, etc. The words at the end of the lines were added as an afterthought by a different band; and were apparently never completed.

57.—Dorla. R. 1901.

ΠΑΠΙΑCEKOCMHCENTHN ΠΙΝΑΤΡΑΝ Παπίας ἐκόσμησεν την πίνατραν.

πίνατρα was probably a native word, indicating some relationship, like the obscure πάτρα (perhaps father's sister), often used in Phrygian inscriptions, C.B. ii. p. 394.

58.—Dorla. R. 1904. Large stone beside No. 2, perhaps belonging to the same heroon (but more probably part of a neighbouring grave): broken right and left.

> ΠλΠλοολοοκ ΤΟΥΤωΝΤΗΝΆΔε σ χλ

Παπᾶς 'Οᾶς Σκ[ τούτων την ἀδε[λφήν μν.] χά.

The rare word in inscriptions  $d\delta r\lambda \phi \delta r \eta s$  might also be restored in 1.2. It occurs also in a fourth century Phrygian Christian inscription, published in C.B. ii. p. 720.  ${}^{\circ}O\delta s$  is a variant of  $B\delta s$ .

There seems to be a list of names, which does not suit the restoration άδελφήν very well. Possibly, in l. 1 ε]ε[όσμησεν should be restored (instead of Σκ as beginning of a personal name).

59.—Dorla. R. 1904. On fragment of entablature, broken right and left: letters small, crowded, and worn.

OLAONIA UHNPEKAANANU CIHCAN AKAIAN IANII KAANGYFATEPATOYTEFOYAA

This inscription was engraved on the heroon of Rekla. In line I the end is . . .]ην 'Ρέκλαν ἀν[έστ]ησαν. In l. 2 another set of persons probably, did honour to 'Ρέ]κλ[α]ν θυγατέρα τοῦ Τεγαύλα. The lettering of this inscription is different in character from the other inscriptions of Doria, and the monument also was of a different form. It probably belongs to the second or even the first century after Christ.

60.-Dinek. R 1901. In the mosque.

TE NEITÄIÄ THPTICÄNTÄ ÄMOTEPÄEPFÄ

[οί δείνες] τε[χ]νείται Απήρτισαν τὰ άμφοτερα έργα

This restoration may confidently be preferred to the other possible suggestion that the name may be Te[ν]νεῖται or Te[ν]νεῖται (of which Dinek would be a modern form, with κ suffixed to give a Turkish appearance). Artisans trained in stone cutting and carving are mentioned in No. 15, also in the district of Isauria immediately south of Nova Isaura (Sterrett Wolfe Exped. pp. 23, 41, 49), and in an unpublished inscription copied by Mr. T. Callander in 1904.

61.—Dorla, R. 1901.

MACOKAEKOCMHCE NMO Y////
AKATONFAMBPONAY THC

Μασόκα ἐκόσμησεν Μου[νῶν - - - ]ακᾶ τὸν γαμβρὸν αὐτῆς

62.—Dorla, R. 1901.

KATITONEKOCMHCI//

Καπέτων έκόσμησ[εν Νόυ[ναν καὶ Οὐα]ναλίν

63.—Dorla, R. 1901.

PODOKAHO

'Ροδοκλής.

ΗΑΔΕΛΦΗΛΙΛΝΗ//// ή ἀδελφή Διανή ! Διανή ! [ἐκόσμησεν?

There is no space for the reading  $[\tau]\hat{\eta} \hat{a}\delta\epsilon\lambda\phi\hat{\eta}$ , so that probably  $Po\delta o\kappa\lambda\hat{\eta}\hat{s}$  was the deceased, and his sister made the tomb (or else  $\hat{\eta}$   $\hat{a}\delta\epsilon\lambda\phi\hat{\eta}$  is ungrammatically used for accusative, cf. Nos. 55, 56).

64.—Dorla R. 1901.

///KEITAIMAYPHAIOC

ἐνθάδε] κείται Μ. Αὐρήλιος Ζήνων ]] μν[ή]μη () χάρ[εν

Zήνων is restored exempli gratia. The engraver omitted ζ after H in 2. The common formula ένθάδε κείται (or κατάκενται) seems to have

come into use in the fourth century all over the Greek-speaking provinces. It was probably imitated from the Latin his inset; and if so spread eastwards from an origin in Italy, or South Gaul, to Asia Minor. It occurs rarely in Nova Isaura (No. 19), and the examples are on other grounds recognizable as among the latest monuments of the place.

65.—Dorla, R. 1901.

///HNWN DYAMENTOC

Ζήνων Ούμλεντος.

See No. 55.

66.—Dorla. R. 1901.

MOYAC MAZI

Illuovas Máfiluav or - ua

The first name may be Τλαμονάς οτ Κιδραμονάς οτ Όπραμονάς οτ Οὐανγδαμονάς (see Cromn, No. 75) οτ Ούραμμονάς.

67.—Alkaran. R. 1901: border round stone and garland, under inscr.

IN/ ///////KOCKAITIATIAC
TIAT;///ANL///FAYKYTA
MNHMHCXAQIN

'Ιν[δα]κος καὶ Παπίας Πα[πι]αν[φ] ηλυκυτάτφ μνήμης χάριν

68.—Dinek-Serai, in the bridge. R. 1901.

**ΠΑΠΠΑCBACIAICCHAΔEA** 

πάππας Βασιλίσση άδελ[φή

Dinek-Serai, in the bridge. R. 1901.

EN ∆EIH \Y∆WPOCENAN⊕PW

ΠΟΙCΙΔΙΚΑΙ\ΟΝ № ZHCANTAΠΑΠΑΝ

ΚΑΤΕΧΕΙΚΟΛΠΟΙCΙΛΑΒΟΥCA Ø ΟΝ

ΟΥΑΝΑΛΙCΤΕΙΑΛΗCEN ~ EH ~ ΘΥΓΑ

ΤΗΡΓΕΓΟΝΥ//// Α Ø CTHΛΛΗΚΑΙΜΟΥCH

ΚΑΛΗΠΟΘΕΟΥCΑΘΑΝΟΝΤΑ

έν[θά]δε [γ]ή [παλ]ύδωρος έν άνθρώποισι δίκαιον ζήσαντα Παπάν κατέχει κόλποισι λαβούσα, δν Οὐαναλὶς τείμησεν, έἡ θυγάτηρ γεγονν[ία, στήλλη καὶ μούση καλή, ποθέουσα θανόντα.

70.—Dinek-Serai, in the mosque. R. 1901. Rude letters.

A OHNI WATE CYBIBI W MOY MANH MHCXA 'Α]θηνίων τ[ή συβιβίο μου μνήμης χά-

PAIN

 $\sigma v \beta i \beta i \omega$  is either an error of engraver or a local rude pronunciation of  $\sigma v \mu \beta i \omega$  with  $\beta$  for  $\mu$ , and a slight vowel separating the two  $\beta$ .

#### 71.—Dinek-Serai, mosque. R. 1901.

 ΝΕΓΤωρεκουΜ
 Νέστωρ ἐκόσμ[η 

 CENTHNΓΛΥΚΥΤΑ
 σεν τῆν γλυκυτά 

 ΤΗΝΜΗΤΕΡΑ
 την μητέρα

The name Nestor is common in this district, Nos. 40, 41.

## 72.-Alkaran R. 1904. Rude letters.

 ΝΑΡΚΙΕΕΙΙ
 Νάρκισσος

 ΚΛΕΙΣΙΚΜ
 Κλεονείκφ

 ΓΥΝΑΙΚΑΔΕΛ
 γυναικαδέλ 

 ΦΜΓΛΥΚΥΤΑ
 Φφ γλυκυτά 

 ΤΜΑΧ
 τφ μ.χ.

Terms for relationship are numerous in Asia Minor (cp. No. 57), showing that the family ties were carefully attended to.

#### 73.-Alkaran, R. 1904.

AΛΓΕΤΗΣΘΕ Ααγέτης Θε-Ο Δ ΨΡΑΓΥΝΑΙ οδώρα γυναι-ΚΙΙ ΔΙΑΜΝΗ κὶ ἰδία μυή-ΑΑΗ ΣΑΡΙΝ μης χάρω

The first two letters are uncertain, and the name may be 'Αλγέτης; but Λαγέτας occurs on coins of Philadelphia (see Head, B.M.C. Lydia, p. lxxxvi).

### 74.-Alkaran R. 1904.

 ΚΥΡ Ε
 Κύρ[ο]ε

 ΕΚΟΕΛΗ
 ἐκόσμη 

 CENTON
 σεν τὸν

 ΑΔΕΛΦΟΝ
 ἀδελφὸν

 ΥΤΟΥ
 α]ὐτοῦ

 ΥλίλΝΟΝ
 'A]λί[α]νὸν

 Μ
 Χ

75.—Alkaran. R. 1904. Complete on right; probably very little, if anything, lost on left; probably no second line.

#### CECATTEPNOY

76.—Euren near Dinek. R. 1901. This and the next were on two similar stones of great size.

MACTWPEKOCMHCENCACIN MAHMHC XAPIN Κάστωρ ἐκόσμησεν Σάσιν μνήμης χάριν

77.—Euren near Dinek. R. 1901. See No. 76.

ΤΑΤΑΕΚΟΟΜΗ ΕΝΤΟΝΠΑΤΕΡΑΥ Τάτα ἐκόσμησεν τὸν πατέρα (α)ὖ[τῆς CACEINANHAHC Σάσειν μνήμης

Ø X Ø

X.

78.—Dinek. R. 1901. In a fountain.

AYP HOKONDACANE!!!!
CETOMFAYKYTATONY!!!!
AOMET IN
M

Αύρ. [Τρ]οκόνδας ἀνέ[στησε τομ γλυκύτατον ὑ[ιον Δομέτιν μν(ήμης) [γά(ριν)]

τόμ for τόν, compare ανέστησεμ No. 35.  $\Delta$ ομέτιν =  $\Delta$ ομέτιον, a very common contraction.

79.—Dinek. R. 1901.

MAMMHEEKOEMHEENTATAN KAIZOHNTHNA DEAGHN Μάμμης εκόσμησεν Τάταν και Ζοήν την άδελφήν.

80.-Dinek R 1001.

POYOCIIII NONTCIIII MNHMF/// 'Ρούφος [ἐκόσμησε Λονγεῖ- ' νον τὸ]ν νίον ' μνήμη]ς χάριν

81.—Baltcha-Assar-Keupreu. R. 1901. The stones in this bridge have no resemblance to those of Dorla; and have evidently been brought from some village of the open plain, perhaps from the ancient site a few minutes south of the bridge. They are quite in the style of the ordinary Lycaonian village inscriptions.

AMHTP MX

Νέστωρ Μάνθα μητρ[ί] μ. χ.

The letters are very rude and late.

82.—Baltcha-Assar-Keupren, R. 1901. Letters rude and late.

ΤΑΤΙΕΙCΠΑΥΛΌΑ ΕΛΦΟΓΛΥΚΎΤΑ ΤΟΧΑΙΡΕΙΝ Τατιείς Παύλφ ά[δελφῷ γλυκυτάτω χαίρει»

#### TOPOGRAPHY AND EPIGRAPHY OF NOVA ISAURA. 179

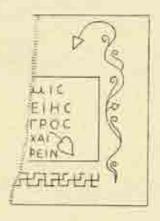
The formula with xaipers is noteworthy. T do not remember it elsewhere.

83.—Baltcha-Assar-Keupren. R. 1901.

MATEICOEIH MHTPICAYKY AIPEIN Παπείς Θείη μητρί γλυκυτάτη χ]αίρειν

 $\theta \epsilon i p$  is either the name or an epithet of the mother, equivalent to the departed and deified.

84.—Baltcha-Assar-Keupren. R. 1901. Contains the same formula, χαίρειν, but with the genitive . . . είης [θυγα]τρός instead of the dative. This is the best in style and lettering, and the earliest of all the stones on this site.



85.—Baltcha-Assar-Keupreu. R. 1901.

+ KONTI TATIEH MNHM

μνήμη

μνήμη usually comes first in these late village stones of Lycaonia.

86.—Baltcha-Assar village. R. 1904.

KAMATAANECTH CENKVPONMNHMHC XAPIN Καμάτα ἀνέστησεν Κύρον μυήμης χάριν.

## 180 TOPOGRAPHY AND EPIGRAPHY OF NOVA ISAURA.

87.—Baltcha-Assar-Keupreu. R. 1901.

IN∆AKOCKATII ПРООУСІГАУ ★T "Ινδακος Καπι-(τ)ρ(έ)φουσι ηλυκυτ]d[τ[οις χαίρειν !

Either τωνος or τοίς was omitted before τρέφουσι, as the gap is too small to contain both. Π by apparent slip for T is certain on the stone, and ε is omitted (unless some other word than τρέφουσι is intended). The P is extremely rude in shape.

W. M. RAMSAY.

### NOTICES OF BOOKS.

Harvard Lectures on Greek Subjects. By S. H. Berchen, Pp. viii+266.
London: Macmillan & Co., 1904. 7s, net.

The six lectures of which this volume is composed fall into three groups: two lectures in which the spirit of Greece is contrasted with the contemporary but diverse spirits of Iamal and Phoanicia, two which treat of the character of Greek literature under the headings of The Greek Love of Knowledge' and 'Art and Inspiration in Greek Poetry,' and two which describe Greek literary criticism in the spheres of verse and prose. The treatment may seem at times rather desultory, and no theories of special novelty are advanced; but the merit of the volume lies in its interpretation of the Greek spirit by one who has very few living equals in his appreciation of it. It is good both for those who are but slightly acquainted with Greek culture and for those who are immersed in the details of it to go back from time to time to the consideration of the spirit which informs it and which makes it valuable (or rather invaluable) to our modern world; and there are few botter volumes than this for such a purpose.

The Speeches of Isaeus, with critical and explanatory notes. By W. Wyaz. Pp. lxiv+735. Cambridge: University Press, 1904. 18s. net.

This edition of Isacus, which has been long in preparation, is on a very complete scale. It contains a critical introduction (pp. i-ixiv), text with Latin critical untes (pp. 1-174), commentary (pp. 175-723), and indices (pp. 725-735). The introduction includes an elaborate study of the Burney MS. (Codex Crippsianus), which is the main authority for the text of Isacus. Mr. Wyse has made a special study of Athenian law, and his commentary will be one of the leading authorities on this subject for a long time to come. Its use for this purpose, independently of its use as a commentary upon Isacus, is facilitated by the index of subjects. Mr. Wyse, it may be observed, does not accept every word of Isacus as an incontrovertible authority on legal questions. He recognises, what is often forgotten, that Isacus was an advocate, not the author of a treatise on common law; and his duty to his client must not infrequently have required him to disguise or misrepresent the true interpretation of the law. His statements must consequently be accepted cautiously, as see parce statements, and with due consideration of the circumstances under which they were made.

Greek Thinkers: a History of Ancient Philosophy. By THEODOR GOMFERZ.

Vols. ii and iii. Translated by G. G. Berry. Pp. xii+397, vii+386. London:

John Murray, 1965. 14s, net each vol.

This second and third volumes of Prof. Gomperz's great work, which are now made available in English, deal solely with Socrates, the early Socratics, and Plato. After two introductory chapters, the life, teaching, and death of Socrates occupy pp. 45-118 of vol. ii. Successive chapters (pp. 119-245) deal with Xenophon, the Cynics, the Megurians (including the Elian and Eretrian schools) and the Cyrenaios. Plato occupies the rest of the volume and 272 pages of the third, the rest of which contains notes and an index to both volumes.

In regard to the chronology of the dialogues, Prof. Gempers adopts the conclusions arrived at long ago on linguistic and stylistic grounds by Campbell—conclusions which had been wholly ignored both in England and on the continent until they were discovered and endorsed a few years ago by Gempers himself and Lutoslawski. Each dialogue is described and discussed at length; and this part of the work will be of great value to Platonic students in England. Indeed the same may be said of it as a whole. These who make a special study of Greek philosophy will of course be bound to make themselves acquainted with it; but, written as it is in good literary style, with profound knowledge of the subject, and with a wide outlook over modern, as well as ancient, philosophy and history, it is admirably qualified to take the place for younger students of the subject which Mommsen does in the sphere of Roman history. Prof. Gempers's acquaintance with English literature and thought, which appears in many allusions and comparisons throughout the work, will aid in commending it to English readers. The translation is sound and competent, and it is only comparatively seldom that the fact that it is a translation forces uself on the reader's notice.

Demetrius on Style: the Greek text of Demetrius de Elocutione. Edited after the Paris manuscript, with introduction, translation, facsimiles, etc. By W. Rhys. ROBERTS, Litt.D. Pp. xiii+328. 2 Plates. Cambridge: University Press, 1902.

Dr. Rhys Roberts has completed his trilogy of editions of the unsterpieces (Aristotle excepted) of Greek literary criticism by an elaborate edition of the De Elecutions, on the same lines as his previous works on Longinus and Dionysius. The introduction, dealing with the study of prose style among the Greeks, is rather sketchy; and the discussion of the authorship of the treatise, while stating fairly the various identifications that have been proposed, goes no further than concluding that the author was not Demetrius Phalereus, but another person with the same first name, who lived in the first century a.p., or possibly the first century B.C. The text is lassed on a new collation of the Paris MS. (Bibl. Nat. 1741, of the tenth or eleventh century), of which two specimen facsimiles are given. The commentary (pp. 242-262) is followed by a glossary of technical terms (pp. 263-309) a bibliography and indices.

Didymes Fouilles de 1895 et 1896. Par E. Pontremout and B. Haussoulleen. Pp. viii. +212, 20 plates, 62 cuts in text. Paris : Ernest Leroux, 1903.

This handsome volume brings our knowledge of the temple at Didyma up to date, but cannot be reckoned as a final publication, while so much of the temple still remains huried beneath the tower crowned by the windmill and beneath various houses. In the introduction, the authors do full justice to earlier travellers and excavators, both English and French. In the first book is a description of the temple as laid bare by excavation, especially of the east or principal façade, the clearing of which was the chief result of the recent excavations. The second book gives the history of the various periods of construction, from its beginning in 332 s.c.: it is based upon a series of inacriptions which give exceptionally full information upon the matter. The ornate and exquisitely carved bases of the east front seem not to have been placed in sits until the middle of the second century 8.c., a date which is, however, more or less conjectural, and which may porhaps appear improbable to some architects, considering the quality of the work. The

capitals with their curved heads, showing, as the authors suggest, Pergamene influence, fit in well with such a date for the completion of this part. The third book deals with the architectural and artistic character of the temple, and its place in the development of Ionic architecture. The authors see in it the influence of Ephesus and of the Mausoleum, and trace its influence on later temples. The fourth book deals with miscallameous fragments of sculpture and architecture, including some archaic pieces of considerable interest. The whole is illustrated with admirable photographs, which help the reader to realise the beauty and the magnificence of the temple, especially of the richly decorated column bases of its eastern face.

Burlington Fine Arts Club. Exhibition of Ancient Greek Art. Pp. xxxii+ 265, 112 plates. London: printed for the Eurlington Fine Arts Club. 1904. [To Subscribers £4 4s]

This work is a sumptuous reissne of the catalogue of the noted Exhibition of ancient Greek Art, which was held at the Burlington Fine Arts (Rub in the summer of 1903. The catalogue was in the main the work of Mrs. S. A. Strong, though special sections were contributed by Mr. G. F. Hill (select coins), Mr. Arthur Evans (gems in his own collection), Mr. C. Newton Robinson (gems), Mr. H. Wallis (objects in glass), and Prof. Furtwaenglar (gems). It has been revised, and supplemented with addenda, and re-issued with ample margins in folio form, in order that the plates might be of sufficient size. Certain groups of objects remain unillustrated for various reasons, but the great majority of the works in the exhibition are here published with photogravure or collotype plates.

Das Relief des Archelaos von Priene. By C. Watzingen. Pp. 25. Two plates and nine illustrations. [63rd Berlin Winckelmansprogramm.] Berlin: Reimer. 1903. 5 m.

An examination of the types of the Muses on the relief of the Apothessis of Homer. After a suggestion, by Ameliung, they are assigned to Philiseus of Rhodes, and are compared with the corresponding types in statuary, and also more particularly with the figures on the base from Halicarnassos, in the British Museum. The artist, Archelaos of Priens is assigned to the Rhodian school, and the mountain on the relief is the Atabyrion of Rhodes. The date of the work is about 210 b.c., for Ptolemy Philopator and Arsinoe are represented as Chronos and Oikoumens, and their married life lay between 217 and 205 b.c. The relief was dedicated by the poet, whose statue and agonistic tripod are seen in the middle tier. He was either Apollonius of Rhodes, or some poet of his school.

Essai sur l'Art et l'Industrie de l'Espagne Primitive. By Pierre Paris, 2 vols. l'p. xv+357 +327, 23 plates, and 787 illustrations in text. Paris: Leroux, 1903.

The author has attempted to give a connected view of the scattered and inaccessible materials on which an estimate of the art of the Iberians must be based. In each branch of art he shows that a few objects have been simply imported from Greece, and the East of the Mediterranean. More frequently the objects found are native productions. Some are frankly barbarian and indigenous, but many give clear indications that the influence of Greece and the East was felt by the Iberian craftsmen. These influences can be traced from the Mycensean period onwards to Roman times. Considerable space is devoted to a discussion of the sculptures of Cerro de los Santos, where the question is made more complex by the presence of many recent forgeries. The famous bust of the Lady of Elehe

is shown to be less isolated than it first appeared to be, and is assigned to an Iberian artist, with Greek training, and is dated about 440 n.c.

Histoire de l'Art dans l'Antiquité. By G. Perror and Cu. Centrez. Tome viii. La Grèce Archaïque. La Sculpture. By G. Perror. Pp. xv+756. 14 plates and 363 illustrations. Paris : Hachette, 1903. 30 f.

The volume opens with an etched portrait of Prof. Perrot, and a memoir of M. Chipiez, whose long collaboration has been terminated by death. It deals in the first instance with civil, military, and sepulchral architecture, that of the early temple having been already discussed in vol. vii. The greater part of the book is devoted to the rise of Greek semipture in the archaic period, which is interpreted as the interval between the 1st Olympiad and the Battle of Salamis. A discussion of the general conditions of early sculpture is followed by chapters on the Ionian schools of Asia Minor and the islands; the Dorian schools of the Pelopounceus, Sicily, Magna Graecia, and central Greece; and on the early school of Attica, principally as revealed by the excavations on the Athenian Acropolis.

British Museum. Catalogue of Sculpture in the Department of Greek and Roman Antiquities. Vol. III. By A. H. Surru. Pp. xii + 481. 29 (half tone) plates and 76 illustrations in Text. London: Trustees of the British Museum, 1964. 7s. 6d.

This is the last volume of the Caralogue of Greek and Roman Scutptures in the British Museum. Vol. I having been devoted to the earlier periods, and Vol. II to the principal campaigns of excavation by which the collection has been enriched, Vol. III deals with the residue. These are for the most part of the later Greek and Graeco-Roman schools. They are grouped as statues and busts arranged by their subjects; uncertain ideal heads; portraits, Greek and Roman; torsos, fragments, animals; later Greek and Graeco-Roman reliefs, votive, decorative, and sepulched; decorative and architectural objects, such as altars, vases, andelabra, and the like. Modern forgeties and cases are briefly described. Comparative tables for tracing objects from the older official publications and a general index to the three volumes complete the work.

Répertoire de la Statuaire Grecque et Romaine. Tome III. 2640 statues antiques. By Salomon Reinach. Pp. xv+371. 2640 illustrations in the text. Paris : Leroux, 1904. 5 f.

This volume completes, for the present, M. Reinach's 'Répertoire.' He has now supplied, at a nominal cost, a visual index to some 13,645 works of sculpture. The illustrations are rough, but they are in most cases sufficient to determine whether there is need for further reference. The book is valuable (1) as an index of sculptural types, (2) as a guide to the standard publications of objects, (3) as a clue (by means of a special index) to the literature dealing with particular collections.

A Companion to Greek Studies. By LEONARD WHIRLEY, M.A. Edited for the Syndies of the University Press, 8vo. Pp. xxx+672. With 141 illustrations and five maps. Cambridge: at the University Press, 1905. 18s.

The scheme of this work sutails eight main headings, distributed us follows: - I. Geography, Franca, and Flora. II. History and Chronology. III. Literature, Philosophy, and

Science. IV. Art, subdivided into Architecture; Prehistoris Archaeology and Sculpture; Painting; Vases and Terracottas; Gems; Music. V. Mythology and Religion. VI. Public Antiquities, including Constitutions and Law, Finance, Slavery, Money, Ships, etc. VII. Private Antiquities: Daily life, Food, Ammsements, etc., Houses, Dress, Books, Education VIII. Criticism and Interpretation, including Palacography, Metre, and History of Scholarship. Sir Richard Jebb contributes the Literature section, Dr. Jackson the Philosophy, Drs. Sandys, Verrall, and others, Section VIII, and the Art section is shared by Profs. Waldstein, E. Gardner, Ridgeway, and Messrs. Earp and A. H. Smith. Other scholars of equal repute, not exclusively Cantabs, contribute to the sections for which their special knowledge has fitted tham. Admitting the natural preference for Cambridge men, there is little fault to be found with the names selected. Indices of Greek mams, words, and phrases, and of modern writers and scholars complete the volume, and select bibliographies are appended to each section. On the whole, it is a well-meant but somewhat ambitions attempt to supply the needs of candidates for the Classical Tripos, Part I; but some of the sections are so dry and meagre as to be almost unreadable.

In selecting a few small points for criticism we shall confine curselves almost entirely to Section IV. Here after a few preliminary pages on pre-historic Greece, Dr. Waldstein gives in 35 pages a fairly adequate summary of the history of Greek sculpture, although the recent discoveries in Crete are hardly adequately dealt with. His chronology is sometimes a little puzziing, as for instance on p. 229 where the Geometrical period is dated 1100-900 a.c., whereas on p. 233 it is said to last down to the seventh century; also the period of Oriental influence surely lasts later than 900-750 a.c. The results from Crete make it at lesst doubtful that the Argolid is the original home of Mycensean art, and they also furnish a more notable instance of evidence for early dating than the results from the Hernaum (p. 229). The temple at Aegina we now know to be dedicated to

Artemis Aphaia, not Athena (p. 241).

Mr. Earp gives a fairly interesting account of that unsatisfactory subject, Greek painting, and Mr. A. H. Smith is sound and intelligible on the subject of vases. But how can terracottas be treated of in one page? They had better have been omitted; or at all events a photograph of some typical Tanagra figures substituted for the Tarantine mould of Fig. 41. We do not think that the spelling splic is in accordance with the Hellenic Society's rules, as claimed in the Preface; and the specimens of vases selected for illustration are poor and unrepresentative, although something is to be said for choosing specimens from the Fitzwilliam Museum. In Section VI the article on Coins is also very imalequately illustrated by the line-blocks, and Prof. Gardaer's monograph on Types of Greek Coins should have been added to the bibliography.

Griechische Geschichte, Von Juntos Bancom. Dritter Band, Die Griechische Weltherrschaft. Zweite Abteilung. Mit sechs Karten, Pp. xvi+576. Strassburg: K. J. Trübner, 1904. 10 m. 50.

With this volume Dr. Beloch, for the time being, brings his Greek History to a conclusion. He observes, it is true, that something still remains to be done—to trace the rourse of events which transformed the Hellones into Byzantines. But we gather that the fulfilment of this task is likely to be long postponed. The present column does not aim at giving a connected narrative of events. It is intended to supplement the First Part of the Third Volume by a detailed discussion of several questions of difficulty and importance. These include the sources for the history of the period and the modern literature connected with it, the various calendars—Macedonian, Babylonian, and Egyptian—and several chronological points, particularly those relating to the numerous royal houses. Of the other sections the most interesting is that devoted to the principal literary fluores of the period and to the leaders of the different schools of philosophy. The volume is, perhaps necessarily, somewhat polemical in tone, but it gives evidence of a most thorough

and independent criticism of all sources of information. A very pleasing feature of the work is furnished by the historical maps. The aid of colours is here employed to depict the extent, at the most important epochs, of the ever-shifting boundaries of the various kingdoms.

The Early History of India from 600 a.c. to the Mahammadan Conquest, including the invasion of Alexander the Great. By VINCENT A. SMITH. Pp. 389, with nine photographic plates and six maps and plans. Oxford: Clarendon Press, 1904.

Only that part of this work which touches upon Greek History calls for notice in this place. The Indian campaign of Alexander is examined from the standpoint of a historian of India, who views it as a passing spisode in the long course of Indian history. The judgment pronounced by him is that there is no truce of any permanent influence left by Alexander's invasion upon the development of India. The greater part of the section devoted to the invasion is, as might be expected, occupied by the discussion of the numerous topographical difficulties. It must be confessed that the succession of sesquipedallan Indian names is somewhat bewildering to the average reader; but those who desire to follow as accurately as possible the romantic much of Alexander will find all the available swidence carefully collected. In particular, the results of modern geographical research are fully utilized. The later Greek invasions of India by Antiochos the Great, Demetries, Enkratides, and Menander, seem to have left just as little personnent effect upon the civilization of India as did that of Alexander.

Die Inschriften von Sicilien u. Abu-Simbel. Bearb. von O. HOFFMAN. [H. Collitz u. F. Bechtel. Sammlung der Griechischen Dialekt-Inschriften. III Bd. 2 Halfte, 4 Heft.] Pp. 223-289. Göttingen: Vandenhoeck u. Ruprecht, 1904.

This part of the G.D.I. contains some 73 inscriptions from Sicily as well as the graffit from Abu-Simbel. As a certain number of the inscriptions from Sicily have already been published in earlier parts under the mother-cities, this collection is not properly representative of the epigraphy of the island, even from the dislectic point of view. Thus under Selinus we have only one inscription, and that not the famous one from the ruins of the Temple of Apollo, with a dedication to various deities (G.D.I. 3046); Syracuse provides three, among which we do not find the believe dedicated by Hiero at Olympia (G.D.I. 3228). The disadvantage of this arrangement, in view of the scantiness of our knowledge of Sicilian dislects, is anknowledged by the editor; but he has done his best to remedy this defect by cross-references. For the coin-legends he has as a rule been content to refer to Holm.

Recueil des Inscriptions Juridiques Grecques. By R. Dareste, B. Haussoutlier, Tr. Reinach. Pp. iii+179-389. 2º Série. Fasc. II and III. Paris: Leroux, 1904.

The present part completes the second series of this invaluable collection. It contains, among other documents, the regulations of the Delphis phratry of the Labyadae, the statutes of the Athenian phratry of the Demotionidae, certain Cretan texts (including the Gortynian decree on the circulation of bronze money), the Mytliansean decree relating to the return of exiles, a long series of acts of enfranchisement, and the list from Dynas of persons condemned to death for sacrilege and fargery. The laws from Olympia are smitted because of the difficulties presented by the interpretation of the Elean dialect. It is to be hoped that this is not the last of the series, and that the editors will see their way to publishing supplements from time to time. A faller index would have much increased the usefulness of the work.

Les Monnaies Antiques de l'Italie. Par A. Samnos. Tome I. Fasc. 3 (Campavie).

Pp. 126. With 115 Cuts in the Text, and a Photographic Plate. Paris Bursaux du
'Musée.' 1904. 6 f.

We have again to commend warmly the regularity with which the instalments of M. Sambon's work are appearing. This section covers the last portion of the coins of Cumae as well as the whole of those of Naples. The Neapolitan series is interesting, and its richness will be realised if we mention that Sambon summerates about 450 distinct varieties. Attention is drawn to the evidence of growing Samnite influence as indicated by the inscriptions and the style of the coins, and conclusions as to the political viciositudes of the city generally are drawn from varieties in the types. A strennous endeavour is made to secure precision in the chromological attribution of the various series. The main feature of novelty in Sambon's arrangement is that the pieces with the head of Athena are regarded not as earlier than, but as contemporaneous with, those which have the head of a nymph as type. It is not easy to judge from the woodcuts and process-blocks how far that centention can be made good. A more liberal supply of proper photographic illustrations would have been helpful in this respect. But the views expressed on general points continue to be, as a rule, sane and cautious.

Recueil Général des Monnaies Grecques d'Asie Mineure. Commencé par fen W. H. Waddingros. Continué et complété par E. Baselon et Ts. Bernaue. Toms Premier. Premier Fascionle. Pp. 210. 4to. With 28 Photographic Plates. Paris: E. Leroux, 1904. 40 f.

When Waddington died, the widespread regret occasioned by the loss that Greek archaeology had sustained was intensified by the knowledge that what he had meant to be the crowning work of his life was still unfinished. For many years he had been collecting materials for a complete corpus of the coins of Asia Minor, an undertaking for which he was equipped in an almost unique fashion. After his death his splendid cabinet passed into the possession of the French nation, while his widow handed over the whole of his voluminous notes to the Académie des fascriptions at Belles-Lettres. Under the anspices of that learned body his great book is to be completed, the task of editing having been entrusted to the two most distinguished of living French numismatists. MM, Babelon and Reimach evidently realiss to the full the seriousness of the responsibility which this pious duty entails. At least three years of labour have been bestowed on the opening section.

There is no introduction and no formal preface. These are reserved for the conclusion of the first volume. It is, therefore, impossible to be certain how far the general lines were faid down by Waddington, and how far they may have been modified by the editors. But it is noticeable that in some important respects they differ from the plan followed in the only instalment of the Berlin corpus of Greek come that has yet been published. There is no attempt made to give an exhaustive list of known specimens. Nor is there much reference to different dies. Indeed, the underlying idea of the whole rather precludes such laborious thoroughness of method. The object kept in view has been to recover, as it were, the archetype of each distinct issue. This must have frequently involved the careful comparison of many individual coins. The professional numismatist cannot but regret that the traces of the preliminary work have been so completely obliterated. But it must be frankly admitted that there is a gain in clearness and simplicity of statement which will be welcome to the general student. The list of pieces struck at each mint is headed by a succinct note, ambodying the results of the most recent geographical and historical research. Much pains has been bestowed on the chronological arrangement, and on such details as the precise forms of the monograms that occur. More information as to the exact, way in which the letters of the inscriptions are placed upon the coins would sometimes have been useful. And the absence of any indication of the weight of the bronze pieces is a really serious defect. It is earnestly to be looped that, before the next section is issued, the editors will reconsider this part of their policy. A special word of praise is claimed by the plates, which are exceedingly well executed. The coins have been admirably selected, and the gallery of types they present is calculated to furnish material for fruitful study. The portraits of the Pontic kings are of particular interest. But there is much else that is only a degree less attractive.

A Catalogue of the Greek Coins in the British Museum: Cyprus. By G. F. Hill. Pp. exilv+120. With one map, a table of the Cypriote Syllabary and twenty-six Plates. London, 1904.

The twenty-fourth volume of the British Museum series deals with one of the most obscure and difficult classes of Greek coins. The proper reading of the legends is in many cases doubtful. Even where it is certain, we are apt to be brought to a standstill by sheer lack of any historical background. In these circumstances the duty of numismatists is clearto ascertain the real facts and to put them on record with the nearest possible approach to accuracy. This task Mr. Hill has discharged admirably. While refraining from speculation, he has gathered together in his Introduction all the material that has a relevant bearing on the money of ancient Cyprus. No aspect of the questions involved is allowed to pass without full and business-like discussion. The British Museum is exceptionally rich in the issues of the Cyprian mints, and the different specimens are described with a thoroughness that leaves nothing to be desired, the great pains bestowed on the identification of dies being specially worthy of mention. No fewer than nine of the twenty-six plates are devoted to coins in other cabinets. The general result is a book which may be said to lay a solid foundation for a complete corpus of Cyprian money, and which is a real credit to British scholarship. The weights of all coins, including bronze imperial pieces, are given. A general index is also introduced, a concession to which the valuable collection of miscellaneous material was fully entitled. It may be looped that these innovations are destined to become permanent features of this line series of Catalogues. The plates are very well executed.

På sonløpura rob spåress råv II-rokepulov. By J. N. Svonoxos. Pis. I., II., and III. Pp. xii+255+324. With numerons illustrations in the Text, and 64 Photographic Pintes. Polio. Athens, 1904. 100 f.

Dartus, Japiter, et laberiasus! Part II, contains an elaborate introduction, including a historical sketch of each reign. Part II, is a catalogue of more than 1900 distinct varieties, with lists of the weights and whereabouts of all specimens known to the author. No pains have been spared to make these lists as complete as possible. Part III, comprises the photographic plates, which may be pronounced fairly successful, especially in view of the fact that the easts have been collected from many quarters, and must have been the work of many hands. The printing and general appearance of the book are admirable, and do mfinite credit to the collightened patriotism that has sapplied the funds necessary to secure publication.

It is safe to say that Dr. Svoronos's corpus marks an epoch in the study of Ptolemaio numismatics. The difficulties of attribution and arrangement that besst this series are well known. Poole's classification (the real groundwork of which was never other than a little mysterious) has held the field for more than twenty years. It must now be abandoned as inadequate to support the mass of material that is here brought together. In its place Svoronos provides a brand new scaffolding of the most complete and extensive kind. Whether it is destined to a longer life than its predecessor, is a question that time alone

can answer. But even the most sanguine may well feel apprehensive when he notes how quickly some of the author's own opinions have been changed. The order adopted in the Plates occasionally indicates a very different view from that followed in the Catalogue, while the Catalogue in its turn has to submit to chastisement and correction at the hands of the Introduction. Dr. Svoronos is always learned and always ingenious, and he has put into this book a vast amount of honest hard work. His views must inevitably command attention and consideration. But it may be doubted whether the Ptolemuic series will finally yield up its secrets until it has been made the subject of an even more minute and systematic study. Dies, for example, are hardly mentioned at all.

A supplementary part (Part IV.) is promised for the immediate future. Besides additional material, it will contain a summary in French of the whole work for the benefit of scholars who do not read modern Greek easily. Those who do business in the great waters of Piolemaic metrology are also promised a full and comprehensive discussion of vexed questions. Let us hope that the essay will be more of the nature of a chart than of a lighthouse. In the meantime, the weights recorded in the body of the Catalogue afford abundant food for reflection. This is but one of several features that render the book indispensable to all students of the history of the Greek monarchy in Egypt, and that must win for its author the gratitude of numismatists everywhere.

Asia Minor, [Murray's Handy Classical Maps.] Edited by J. G. C. Anderson, London; John Murray, 1903. Cloth, 2s.; paper, 1s. net.

Murray's Small Classical Atlas. Edited by G. B. GRUNDY. Lendon: John Murray, 1904. 6s.

So much of the material for Mr. Anderson's new map of Asia Minor has been published in this Journal, that a notice of its publication seems to be called for. It is an entirely new map, embodying the results of the travels of Mr. Anderson himself, Prof. Ramsay, and various other scholars. The scale is 1;2,500,000, and no less than 14 contours of altitude are indicated by different colours, ranging from sea-level to the top of Mount Argaeus, the one spot which is over 12,000 feet. The result is a good conspectus of the physical features of the country; while the information as to roads and sites marks a great advance in the cartography of the region. A full index accompanies the map.

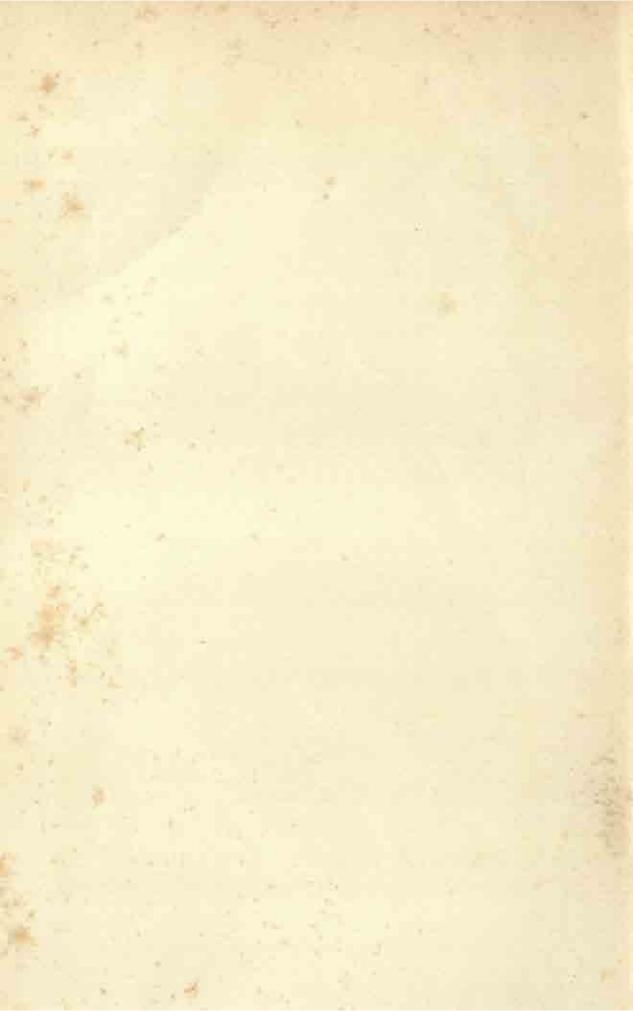
The Small Classical Atlas, edited by Mr. Grundy, is the outcome of the series of Classical Maps, to which Mr. Anderson's Asia Minor belongs, but is independent of it. It employs the same system of coloured contours, and makes a special point of legibility in printing. Its defect is, that since a large number of coloured printings is incompatible with the low price at which the allas is issued, the intervals between the contours are considerable, and a deceptive appearance of equality in surface is produced. Thus in the case of Asia Minor the fourteen shades of Mr. Anderson's map are replaced by four, and the highest and lowest of these are of rare occurrence; so that the whole country has an unduly uniform appearance. Nevertheless the atlas (which contains fourteen maps and an index) will be found really useful; and special mention should be made of the plans of Athens and Rome, and the fourteen principal battlefields from Troy to Actium. Mr. Grundy appears to hold still to his former views as to the topography of Pyrios:

The following, among others, have also been received :-

Plato. Euthydemus: with revised text, introduction (51 pp.), notes, and imilioes (81 pp.). By E. H. Girrono. Oxford: Clarendon Press, 1905. 3s. 6d. (A very complete edition for the use of University students and the higher forms of Public Schools.)

- Some Aspects of the Greek Genius. By S. H. BUTCHER. Pp. vi+324. London: Macmillan & Co., 1904. 7s. net. (A third edition of this well-known and stimulating work.)
- Bacchylides. By R. C. Jenn. [Proc. of the British Academy, vol. i.] Pp. 18. London: Frowde, 1905. 1s. net.
- Ancient Greek Coins. By F. S. Benson. Vol. iii. Parts zi-xiv. Pp. 45. 4 Plates. Privately Printed. 1903-4.
- Euripidis Fabulae Recogn, G. Murray. II. [Scriptorum Class. Bibl. Oxon.] Oxford: Clarendon Press, 1904.
- Catalogue of the Printed Books and Manuscripts forming the Library of F.
  D. Mocatta, By R. A. Ryn. London: Harrison, 1904.
- Byzantine Constantinople, the Walls of the City and adjoining Historical Sites. By A. vas Millingen. 1899.
- Illustrations of School Classics By G. F. Hitt. London : Macmillan & Co., 1903.
- Notes on Roman Gold Bars from Egypt. By G. F. Hill. [Proc. Sec. of Ant. 2 Ser. xx.] London, 1904.
- Necropoll e Stazioni Sicule di Transizione. By P. Oast. [Bull. di Paleta, Ital., 1902.] Parma: Battel, 1903.
- The Osireion at Abydos. By M. A. MURRAY, with sections by J. G. MILNE and W. E. Caust. [Egypt. Research Account, 9th Publ.] London; Quaritch, 1903.

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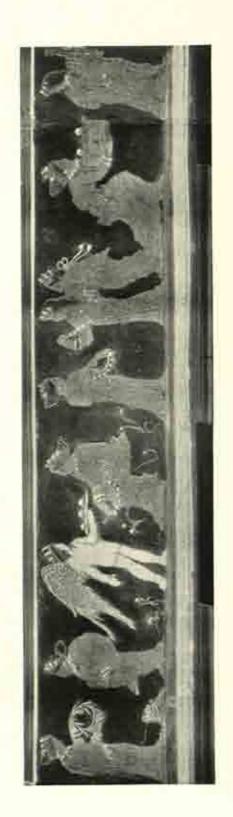
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LEKYTHI IN THE ASHMOLEAN MUSEUM.







PYXIS IN THE ASHMOLEAN MUSEUM (351).

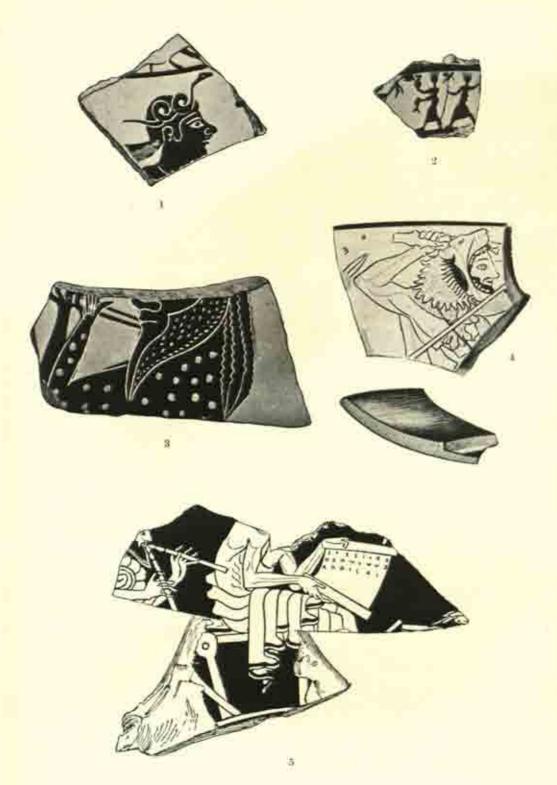




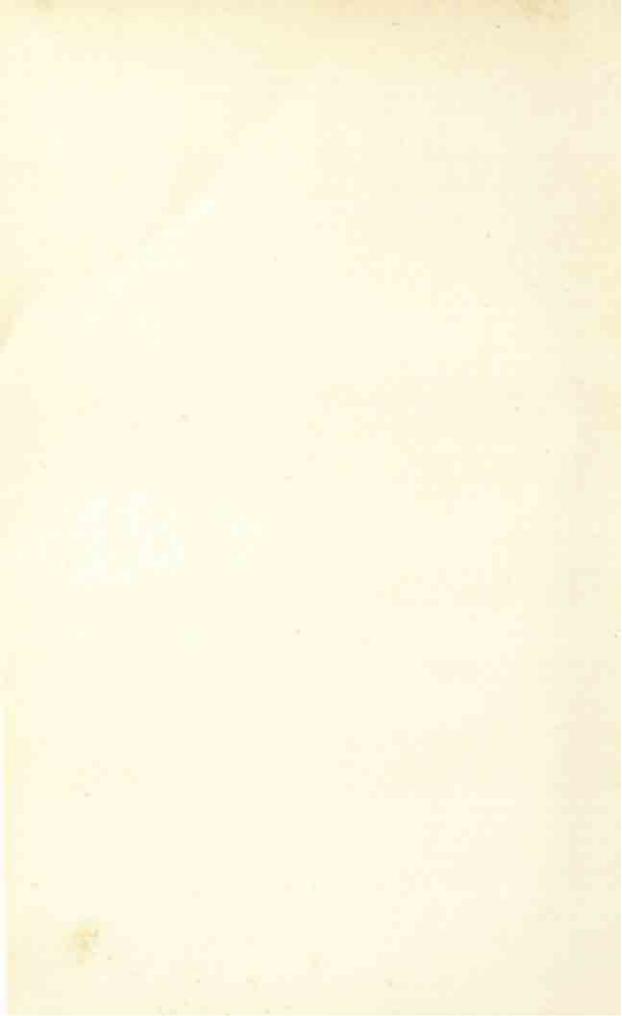
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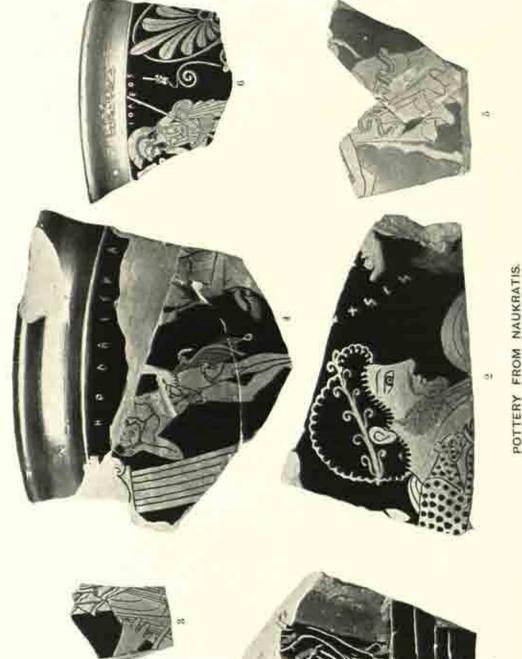
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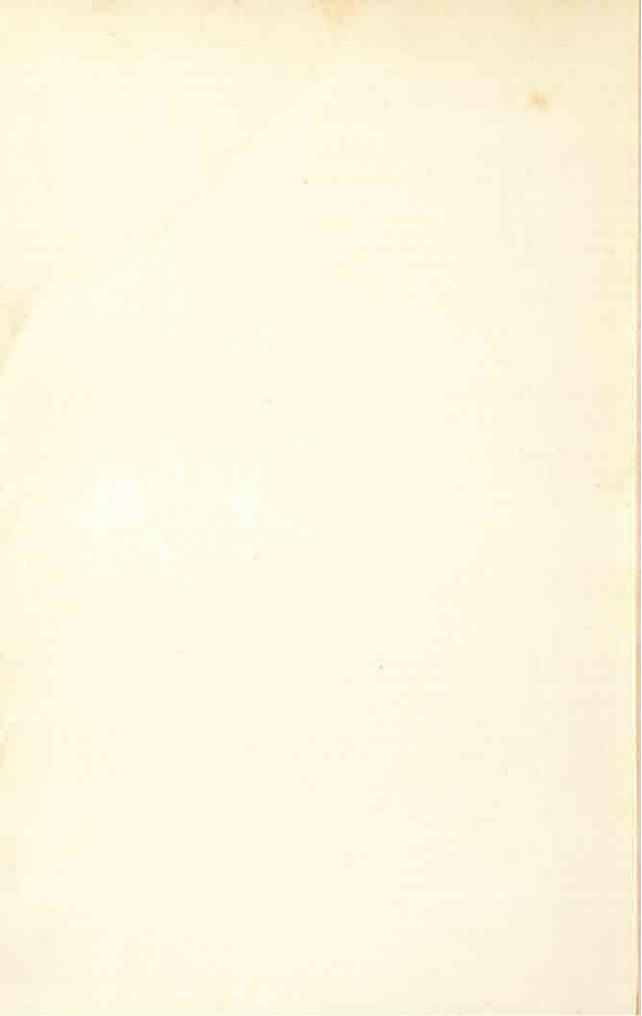






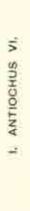


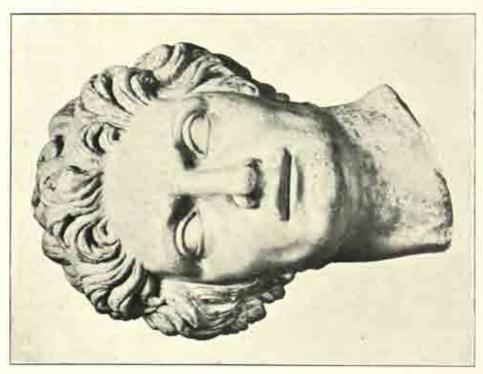
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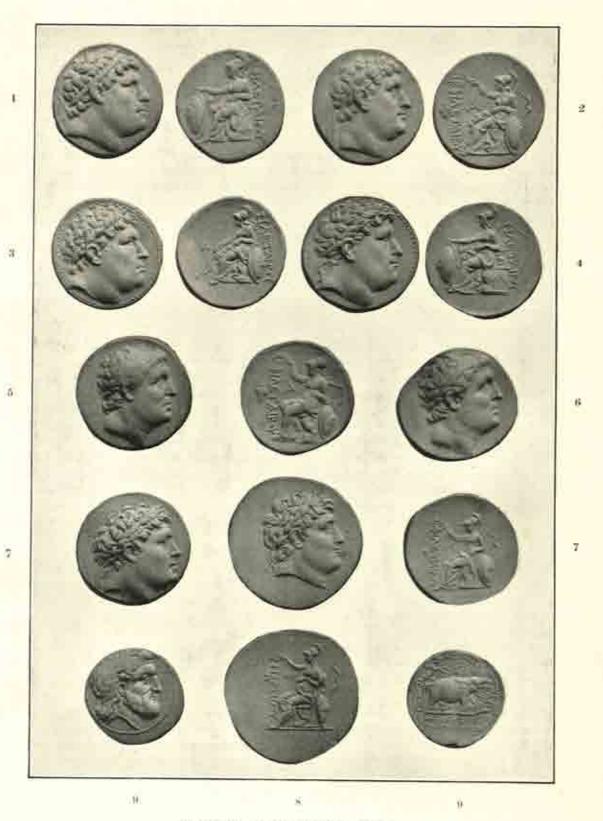




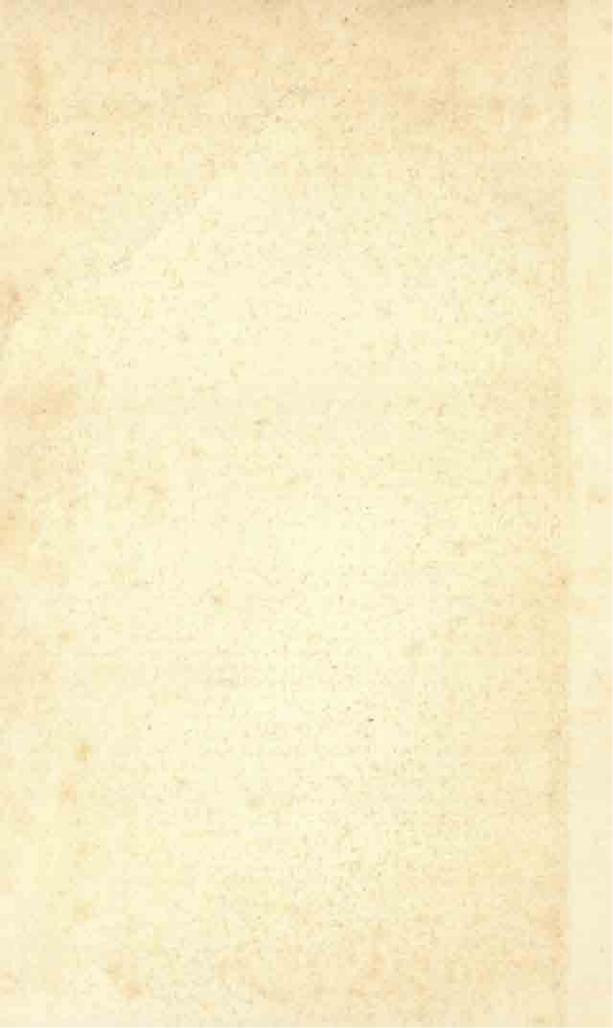








ATTALID AND SELEUCID COINS.



# SOME POINTS AS TO THE CHRONOLOGY OF THE REIGN OF CLEOMENES L

The two dates which I wish briefly to discuss are those of the Argive Expedition and of the Atheno-Platasan alliance: they are of cardinal importance for the history of Greek politics in an important but very obscure period. The two questions may be considered as independent and it is possible to adopt the earlier date for one event, and not for the other (as E. Meyer does), but in my judgment the two events are connected, and the

date assigned to the one carries with it the date of the other,

First then as to the date of the attack on Argos and the battle of Sepeia. Before the time of Grote this was always placed circ, 520 RC, on the strength of the passage of Pausanius (iii. 4), when Cleomenes came to the throne, he at once invaded the Argolid ; his accession is usually placed about 520, and as this date is generally accepted, it is needless to give the reasons for it here. The date of Pausanias is in itself worth very little: It is true that he has information as to the Argive campaign which is not in Herodotus, and which may be derived from some local chronicler; but this information is given in an earlier book (ii. 20), while in iii 4 he is mainly following Herodotus. It may be noticed, however, that he certainly is supplementing Herodotus from some other source (e.g. the name of the grove of Eleusis, 'Orgas'), and it is not unnatural to suppose that lie had reason for giving a date for the expedition of Cleomenes, which differs from that which at first sight seems to be given by Herodotus; Wernicke writes 'perverse eum (Cleomenem) initio regni sui id fecisse (Pausanias) dicit, but it may well have come from some chronological table (such as the Parian Chronicle).

Another explanation of the date in Pansanias that has been given is that we have here an instance of the well-known chronological rule which dates an event, known to have happened in a certain period, in the first year of that period, r.g. the invasion of England by the Saxons was put in 440 A.D.,

Categories cho puts the number of the slain at 5000 (Hill. vii. 148 gives 6000), and his account of the treatment of Aegins differenterially from that in Rule, vi. 50 sy. These.

bowever, may be myrely mistaker, due to Pausanias writing from memory

<sup>&</sup>lt;sup>2</sup> De l'amuniae studiis Herodoti, p. 18 : fhis is a very unouavireing piece of Quellankritik.

because that was supposed to be the first year of Marcianus (quorum tempore Angli a Brettonibus accersiti Britanniam adierunt, Bede v. 24 and Plummer's note ii. p. 27).

It has also been suggested that Pausanias may have had a confused remembrance in his mind of the curious statement of Herodotus that 'Cleomenes reigned no very long time' (v. 48). But it is needless to speculate further; were the statement of Pausanias the only reason for the earlier date, no one would think it worth while to discuss it. I only submit that, if the earlier date be found on the whole to suit here the narrative of Herodotus (vi. 76 seq.), the date of Pausanias adds some slight confirmation to our inference.

That Herodotus puts the invasion of Argos near the end, and not at the beginning, of the reign of Cleomenes, has practically been agreed since the time of Grote (iv. p. 247); it is sufficient to refer to Busolt (ii. 3 561), Beloch (i. 349), and E. Meyer (G. des A. iii. 319) in Germany, and to Macan (Herodotus ad loc.) and Bury (Beiträge zur A. G. 1902) among British scholars; Abbott leaves the question open in his Appendix (i. 448), and gives no date in his narrative. Only Curtius, I believe, of modern authorities supports the earlier date, and even he in his notes (i. 660) seems to suppose there were two Argive campaigns, a compromise that will satisfy no one.

The passage of Herodotus usually quoted as decisive is vii. 148-9, in which the Argives plead that they cannot take part in the resistance to the Persians in 480, because 'they had lately (\(\nu\omega\pi\)) lost 6,000 citizens slain by Cleomenes and the Lacedaemonians, and therefore must (cap. 149) have 'a 30 years' truce' in which 'their children may grow to man's estate.' This passage, however, proves nothing; it is obvious to every reader of Herodotus, it was obvious to Herodotus himself (though be was certainly not an enemy of Argos), that the Argives here were not giving the real reason for their inactivity. In fact Herodotus (ix. 12) records that in the very next year the Argives had 'undertaken to prevent the Spartan from going forth' (to resist Mardonius). This hardly looks like a depopulated country; but we will take later the positive proofs from Herodotus that Argos between 400 and 470 was in the very reverse of a crushed condition.

A second passage quoted is Herolotus v. 49: Aristagoras arges the Spartan king to attack the Persians, and 'to put off fighting against the Messenians, his evenly matched foes, and Arcadians and Argives'; this, says Mr. Macan, 'would have been rather beside the mark' if the Argives had just been crushed. To me the passage seems to favour the other side, if it be worth anything; the Messenians had been undoubtedly crushed; the Arcadians had been reduced to a dependent condition; is it not natural to suppose that the Argives are in the same category? But such allusions of course really prove nothing, even if we could suppose—which of course we cannot—that Herolotus is accurately recording what Aristagoras said (and not writing from the point of view of his own day).

There remains the third-and to my mind only serious-argument from

Herodotus against the early date, i.e. the oracle quoted in vi. 77, and in part in vi. 19, in which the fate of Miletus and the fate of Argos are joined together. Now I admit at once that if this passage stood alone, we should naturally consider that the two events referred to must have been about the same time, and that therefore the defeat of Argos falls in the first decade of the fifth century. But if sufficient evidence can be given for the earlier date from other parts of Herodotus, then the evidence of the oracle can hardly be thought in itself to outweigh probability and the balance of evidence.

For in the first place the whole attitude of scholars to this oracle is most uncertain: some (e.g. Busolt at supra) consider it a prediction post eventum; others like Bury (at supra) build up on the strength of it elaborate theories, e.g. that Aristagoras had appealed to Argos (as well as to Athens and Sparta) for help, and that the treasures of Croesus were never given to Delphi at all, but had been feloniously transferred from Branchidae to Delphi: to this latter theory he only refers without adopting it. The former theory—that Aristagoras visited Argos, and that Delphi was consulted about the propriety of sending help—may be true, but the silence of Herodotus is a strong argument against it.

The most probable explanation of the oracle is to be found in the story of Telesilla; if this be true in the main (I must refer to Macan ad loc, for the strong reasons which can be adduced for this view), then the oracle is a riddling account post eventum of what had happened. If on the other hand, the oracle be genuine (either as a whole or in part), and was really given to the Argives (Herodotus himself says the Milesians were not present), its general meaning is so obscure that it proves nothing. The oracle of Delphi might well, between 530 and 520 g.c., have vented its spite against Miletas\* by interpolating into an Argive oracle a warning which the position of affairs in Ionia at the time rendered likely of fulfilment.

And it is worth noticing that, in other oracles beside this, the attitude of the Delphic Oracle to Miletus was the reverse of friendly: that city and its Italian partner Sybaris are assailed in tones of prophetic reviling. This fact would render easier the belief that the oracle so far forgot itself as to abuse a city unconcerned in the consultation of the moment.

But this is only a suggestion; and I should also have thought that the double nature of the oracle is in itself a most suspicious circumstance. It would be hard, I think, to quote a real parallel to it.

In any case the obscurity of the oracle is a slight argument for the earlier date; Herodotus is far better informed about what happens in the fifth century than he is about the events of even the last quarter of the sixth century; it is sufficient to compare his accounts of the second and the third Aeginetan Wars.

<sup>&</sup>lt;sup>2</sup> This theory is C. Niebuhr's. For the arguments for it, I can only refer to Mr. Bury's pages: to use it seems not worth discussing; so far from 'such divination' serving to illus-

trate and accentuate a problem," it only obscurred

<sup>&</sup>lt;sup>4</sup> Cf. Bouche-Lemberoq, Histoire de la Divination, lii. pp. 129-130.

Let us now turn to the evidence in Herodotus which seems to show that the Argive defeat was early in the reign of Cleomenes V, not at the end of it.

The first passage, which is entirely neglected by Grote, is vi. 92; Herodotus describes how 1000 volunteers went from Argos to help Aegina in the third Aeginetan War; it must be noted too that they went against the wish of the state, which had good cause to complain of Aegina for lending ships to Cleomenes. Now the date of this war is uncertain; but it cannot be later than 485, and may be earlier than 400. Can we suppose that a state depopulated of its warriors would in less than 10 years, perhaps in five, be sending out 1000 warriors in a quarrel that did not concern it?

I have already referred to the position of Argos and its apparent strength in the Persian war; but what followed ! At some period between 475 and 465, Argos was able once more to dispute the hegemony of the Lacedaemonians in the Peloponnese: I refer of course to the battle of Tegen (Hdt. This renewal of the age-long struggle between Argos and the Lacedaemonians is more probable after fifty years than after twenty-five. It may be objected that, according to my own theory, the struggle was renewed in the preceding century after only one generation, for the war of the 300° (Hdt. i. 82 sq.) was about 550, and the battle of Sepeia about 520. But the cases are not parallel; there is no evidence that the defeat of Argos in the middle of the sixth century was carried out with the awful thoroughness of the work of Cleomenes. And there is a further point to be considered. Herodotus tells us with considerable precision of the results of the Argive defeat at Sepeia (vi. 83); so depopulated was the city that the δούλοι. became masters of it 'till the sons of the slain grew up, a period for which we must allow something like twenty years; then followed a war in which 'the slaves' were 'driven out' to Tiryns; then a period of reconciliation (αρθμια), and then the final war which lasted 'a considerable time,' and in which the Argives 'with difficulty' conquered. If we place this victory and the capture of Tiryns (with Busolt) about 472-1, it would certainly seem that the twenty-four years between this and 495 are much too few for the recovery of Argos; I admit that on the other hand the fifty years since 520 seems a rather needlessly long time for recovery; but the difficulty of excess of time is only an apparent difficulty.

There is another class of evidence bearing on the date of the recovery of

The weakness of Argos is the fifth century has been inferred from the independence of Mycemae and Tiryns; that the two towns were independent, is shown by the fact that they took part in the Persian war on the patriotic side. It does not necessarily follow, however, that we must assume the later data (circ. 495) for the defeat of Sepsia. If this took place about 520, the first generation (520-480) would be scurpted with the recovery of Argos; then follows this period of 'reconciliation' in which

Argos, though herself strong enough to massert but authority completely over her Periodicid states, darre not do se till an opportunity occurs when the Lacedaemonians esmot interfere. It is during this period that Myceuse and Tiryus seek to assert their independence by joining the Greeks against the common for , to compare small things with great, their policy would be the same as that of Cavour joining the Allied Powers in the Crimean War, is order to bring Sanlinus to the front,

Argos, which must be just referred to—I mean the evidence as to its school of sculpture. Agelulas the Argive was the most famous sculptor of his day in Greece, and in his school were trained Myron, Pheidias, and Polycleitus; the usual date for his 'floruit' is from 500 to 460°; this seems required by the fact that he is credited with trophies which must be subsequent to 468 and 460 respectively (Pausanias x. 10, 3; iv. 33, 3); if this be correct, it seems to require us to assign Cleomenes' victory to the earliest possible date; a depopulated and distracted city could hardly be the home of a flourishing school of art.

To sum up then this part of my argument: the earlier date for Cleomenes' expedition is supported by the fact that Argos was strong again by 475, that she had abundance of warriors at least ten and perhaps fifteen years earlier, and that at least thirty years must be allowed for the terrible social changes which followed her defeat by Cleomenes.

I have still a good deal more to say as to the probability of the earlier date, but it had better be said after I have discussed the reason for accepting or rejecting the date given by Thucydides for the Atheno-Plataean alliance. As everyone knows, he puts this (iii 68) in the ninety-third year before the capture of Plataea, i.s. in 519; but since Grote's argument against this date, it has been usually given up, and one ten years later adopted; it is indeed quite easy to conjecture that the text (cf. Busolt ii. 399 n. 4, c. Macan ad loc.) of Thucydides has become corrupt in its figures. Of the modern historians quoted above, Meyer (ii. 780) still prefers the old date, following the sound principle of when in doubt, trust Thucydides'; and Beloch (i. 340), without pronouncing definitely, rejects Grote's arguments; the majority, however, here also reject the old date and accept the new one.

What then were the grounds of the great English historian for leaving the authority of Thucydides, a thing which, as he says, he was very unwilling to do? They are four:

- (1) We cannot explain the presence of King Cleomenes in the neighbourhood of Plataea in 519; in 509 it is easy, as he was then busy with the settlement of Athens.
- (2) Had the alliance been made in 519, the name of Hippias must have occurred in the story; for he then was ruler of Athens.
- (3) The narrative of Herodotus (vi. 108) represents the Plataean alliance as offered to Athens on the suggestion of Cleomenes, and further that this suggestion was due to a desire to embroil Athens and Thebes. Yet Herodotus represents the Peisistratidae as friends of the Lacedaemonians (v. 63).

gested by the dates of the three Olympic victories commemorated by Ageladas (which fall between 520 and 507); but these may have been put up some time after the event. The whole question is discussed by France (Pausanias, iii. 438-9), who inclines to decide for the sarlier date on the ground of a recently discovered inscription; his argument does not seem very convincing.

<sup>\*</sup> This date is accepted without question by Professor Waldatein in his great book on the Argive Herauum; Pausanias attributes to Ageladas works communicating a Tarontine victory of about 668 (x. 10, 3), and a Messenian victory not surfier than 460 (iv. 33, 3); others (a.g. Busali, ii. 2, 561) inte-date his "flornit" to 520-480, i.e. make it preceds the defeat of Argos by Cleonouse. This earlier date is sug-

(4) Herodotus tells us (v. 78) that the Athenians under the tyrants were unenterprising and cowardly; how then can we credit them with courageously helping Plataea, and with the brilliant victory over Boeotia, described by Herodotus (vi. 108) as following the alliance?

Let us examine these arguments in detail.

(1) The first sounds plausible, but does it really prove anything? We do not know why Cleomenes should have been near Plataes in 519. But why should we? Do we know where he was in 518 or 517 or in any year down to 510?

One thing, however, we do know, which may enable us to guess why the Spartan king should have been in the north of the Peloponness in 519, i.e. it seems to have been in this decade that the Peloponnesian Confederacy was being organized. This league certainly is fully developed about 509 (v. 91), and its development must have taken some time. Surely then we have some authority for supposing that Cleomenes may have been in the neighbourhood of Plataga at the time in question.

And I cannot help thinking that we may have a more definite trace still in Herodotus' own narrative elsewhere. In v. 68 he tells us that the anti-Dorian arrangements of Cleisthenes at Sicyon lasted 'while Cleisthenes was tyrant and when he was dead also for sixty years.' Now Cleisthenes died about 560 (the date is uncertain), and this would give about 500 for the date of the revival of Dorian institutions at Sicyon; but this date does not fit in with our general knowledge of the period, and we may perhaps suppose that Herodotus' informants (whom he imperfectly understood) reckoned 'the sixty years' from the date of the establishment of the new tribal names; this must almost certainly have been in the decade following 585 and Cleisthenes' great triumph in the first Sacred War. In that case the Dorian reaction at Sicyon would be about 520, and would coincide with the victorious activity of Cleomenes. This point, however, cannot be pressed.

So much for Grote's first argument.

His second argument involves, it must be said, an entire misconception of the nature of Herodotus' narrative. Without accepting all, or half, that has been written on 'Quellenkritik,' it yet remains true that a considerable advance has been made in our methods of studying Greek history since Grote's time, by a careful attention to the authorities which underlie the narrative of Herodotus. He was dependent for his facts on his informants; he checked them by his general principles of evidence; but he had not, for the sixth century at all events, a chronological scheme sufficiently fixed to enable him to co-ordinate his different traditions. Hence Herodotus writing the story of the Platacan alliance from the mouth or a patriotic Athenian would naturally hear nothing of Hippias in 519, although Hippias was ruling Athens at the time; and it would never occur to Herodotus himself to add the name of the tyrant, although he had received (and recorded elsewhere) evidence to show that the diplomatic activity of the Peisistratidae was widely spread over Northern Greece and the Aegean.

'The same argument disposes of Grote's fourth point. No one now

would be likely to take literally Herodotus' words in v. 78; the Athenians of the Peisistratid time were not of the same heroic breed as the Maραθωνομάχαι;—that was what Herodotus meant to say, and in that sense we understand him—but they were already a people with imperial instincts and quite ready to welcome an alliance which opened to them the passes of Cithaeron.

There remains Grote's third argument, which I believe is generally considered the most important, i.e. that the Peisistratidae were 'especially friendly' to the Lacedaemonians, and that therefore Lacedaemonian diplomacy was not likely to try to embroil them in Boeotia. Beloch (ut supra), although he tends to accept Thucydides' date, is contemptuous of Herodotus' argument, and talks about 'borrowings from the relations of the fifth century.' Neither Herodotus nor Beloch can give any absolutely certain information as to motives; but I would rather trust the inferences of the most widely travelled Greek of the fifth century B.C. than the theories of a professor in his study at the latter end of the nineteenth century A.D. But this is a question of taste.

Let us look at the facts. There is, I suppose, no doubt that the whole policy of Cleomenes was to extend the influence of his countrymen in the Peloponnese and in Central Greece: by this policy all his acts and his refusals to act (which are quite as significant) can be explained. There is also no doubt that the power of the Peisistratidae, based as it was on alliances more or less formal with Argos, Eretria, Thebes, Thessaly, Macedon, and some of the Aegean islands, was a most serious, it might be said, an insuperable obstacle to his success. What more likely then than that the Lacedaemonians endeavoured diplomatically to undermine? their 'very dear friends,' the Peisistratidae, before they attacked them. More must be said in a moment as to the continuous policy that runs all through the reign of Cleomenes; but there are one or two further points which must be made here, which especially concern our special point, the date of 519 for the Atheno-Plataean alliance. A curious coincidence of language has been pointed out by Meyer (ut supra); Cleomenes (Hdt. v. 74), when invading Attica after his expulsion (about 508) found 'Oenoe and Hysiae,' 'the border demes of Attica,' an extension of frontier, which Herodotus (in vi. 108) says was the result of the victorious issue of the war that followed the Atheno-Platacan alliance; but this, though interesting, is certainly not decisive. But it may fairly be asked-which date suits better the adoption of Plataes as an ally—519, when Athens was apparently in the height of her power, or 509, when she had just passed through a revolution, was torn by faction at home, and had bitterly exasperated the Lacedaemonians and their king? We know that at the later date, 500, one party was prepared to purchase allies even at the price of degrading submission to the Great King (v. 73). Would the state then have deliberately gone out of her way to provoke an old ally? But in 519 the alienation of Thebes is not unnatural; the old tyrant had done his best to

Their policy is an exact authorisation of time of the revolt of Thases 50 years later, their policy towards their Athenian allies at the

keep on good terms with all his neighbours. The young tyrant was for a spirited fereign policy and the extension of Athenian influence. The policy of Peisistratus would have been wiser than that of Hippins, but-even apart from probability-modern analogies might make us doubt whether young rulers are always wiser than their predecessors.

To sum up then the arguments for the early date, 519, for the Atheno-

Plataean alliance:

(1) It rests on the express statement of Thucydides.

(2) It suits the condition of things in Athens much better than the later date.

(3) And the motives suggested by Herodotus for the Lacedaemonian part in it are in accordance with all the traditions of their policy, and I hope

to show in accordance with their actions in this very decade.

For now we must turn to discuss the chronology of Cleomenes' acts from the positive side, and show how, if we adopt the earlier date 520 for the attack on Argos and 519 for the Atheno-Plataean alliance, a more consistent scheme can be obtained for his character and actions than in any other way. It is generally assumed, as has been said, that he ascended the throne about 520. Would be have been likely to take decisive action at once?

So far Lacedaemonian policy had moved forward resistlessly from success to success; the century from 750 to 650 (to assume the traditional dates) had given her the mastery over the south of the Peloponnese; the century from 650 to 550 had, after a long struggle, culminated in making her paramount in Arcadia. The close of this period had seen Argos decisively thrust back from the border region (perhaps for the first time, perhaps when trying to undo former defeats). The time was now ripe for another step in advance; were Argos out of the way, the Peloponnese could be formally united under Lacedaemonian nyemovia. That this was so the circumstances of the next ten years proved; it is probable that the young king saw it, and resolved to strike at once. And he had private reasons for doing so; his succession to the throne was not a popular one; if anything is clear from the narrative of Herodotus, it is that Dorieus and Leonidas had a strong party in Sparta (v. 42) from whom Herodotus derived much of his information. It is surely then in accordance with probability that Cleomenes should have wished to show at once that he was a genuine son of Anaxandrides and to silence murmnrers by a brilliant success.

Probability then-apart from other evidence-would lead us to put the Argive expedition early; and the sequel confirms this. It has been suggested, almost with certainty, that the decade from 520 to 510 saw the establishment of the Lacedaemonian Confederacy; but even apart from this, it seems to me impossible to reconcile the certain facts as to Cleomenes in the first half of his reign with the existence of a strong Argos. We know that in 510 and the following years, the Lacedaemonians interfered, or sought to interfere five times in the affairs of Athens. Is it possible that this could have been done so freely with a strong Argos threatening their flank all the time? Argos was certainly friendly to the Peisistratidae (cf. Hdt. v. 94).

Why were not some of her 6000 warriors engaged either in the defence of Attica (as the Thessalians were) or in making a diversion in the Peloponnese? But if we assume the date of 520 for the victory of Sepeia and the crushing of Argos, all becomes clear: Cleomenes has a free hand in the Peloponnese and uses it to organize the Confederacy; and meantime he prepares for the next move forward by sowing trouble for Athens at home. Modern diplomacy gives us good instances of how a policy of blood and iron does not disdain to use

intrigue to prepare its way, and to isolate its enemies.

So far then from thinking that the attempt at estranging Athens and Thebes in 519 needs explanation, I should have thought that the date justifies itself. The policy was a preparing of the way for the direct attack on Athens which was to come in 510. But it will be objected at once that the attack of 510 is said by Herodotus to have been due only to the Delphic Oracle, corrupted it is true, by Alemaconid gold and marble, but none the less obeyed implicitly by Cleomenes and his people. Now I confess that I do not like departing from the statements of Herodotus, but it is necessary not to overlook several obvious points.

(1) The whole business happened more than thirty years before he was

born, and he was therefore completely dependent on his informants.

(2) These informants were certainly Lacedaemonians and Delphians in this part of his narrative, and perhaps Alemaconids also.

(3) And what they told him was the truth, but not the whole truth. It was quite true that the ordinary Lacedaemonians heard with wearisome iteration 'Athens must be delivered.'

The only detail omitted was that this message was dictated as much by Lacedaemonian policy as by Alcmaeonid intrigue. What happened was surely this; the old policy of putting down tyrants and putting up oligarchies (ἐπιτήδειαι τοῖς Λακεδαιμονίοις) had pretty well attained completion in the Peloponnese.

Cleomenes thought he saw an opportunity of carrying it out in Central Greece as well. But the ordinary Spartan did not see so far ahead as the king, and therefore a little religious pressure was applied to encourage him. It will hardly be said that we are doing Cleomenes an injustice in suggesting that he knew how to work an oracle; it is surely more probable that, where intrigue was concerned, he was one of the deceivers, not one of the deceived.

The story of Herodotus is three parts true and the fourth part is suppressed, because it was no one's interest to tell it. Cleomenes made a mistake, for he could not foresee that Athenian democracy was ready to come forth when the pressure of the \tau\nunnis was removed; he was the ablest statesman in Greece, but a man of 'blood and iron' was constitutionally incapable of estimating the power of the Solonian ideas, which had been working for three quarters of a century in Athens. When he found that he had cast out tyranny only to let in a still worse enemy to Lacedaemonian \(\eta\gamma\nunnightarrow\tau\nunnightarrow

history of that great family for them to be eager to tell the world in the fifth century that their patriotic hostility to Cleomenes had begun in sharing with him a not very creditable intrigue.

If then this version of the facts can be trusted, we have for the first half of the reign of Cleomenes a brilliant success, followed by wide and permanent results in the Peloponnese, and a brilliant failure, which simply showed how

easily the best laid plans go astray.

The character of the rest of the reign of Cleomenes is very different. The failure at Athens and the quarrel with Demaratus, who constantly thwarted his plans, seem to have changed his character and certainly rendered him unpopular; this I think may fairly be assumed from Herodotus" accounts of his latter days; we shall hardly believe that he was suffering from the wrath of Demeter, as the Athenians said (vi. 75), or of Apollo, as the Greeks generally said (ib.), or of the hero Argos (ib.), as the Argives said. We shall be more inclined to believe that he suffered from intemperance, though it is more likely that this was the cause of the story that the Scythians visited Sparta (vi. 84) than the result of that visit. It seems difficult to think that Cleomenes would have been credited with madness and intemperance for nothing. Those who put his greatest success in the last period of his reign ought to account for the unfavourable tradition that certainly prevailed as to him in Herodotus' day. It is easy to explain, if ten years of success were followed by twenty years of failure; it is difficult to reconcile with the activity successfully maintained to the last, which is postulated by the late date for the Argive expedition. Perhaps even the strange statement of Herodotus in v. 48 may be partially explained in this way. It is very old to say of a king who reigned at least thirty years that he 'reigned no very long time ; as Macan has well pointed out (ad loc.). Herodotus may have been thinking for the moment only of the fact that the brother of Cleomenes succeeded him: the historian was never very strong in chronology. But Herodotus' mistake is the easier if the brilliant part of the reign of Cleomenes was concentrated in the first twelve years.

It may be said that I am neglecting the events of the very end of his reign, the deposition of Demaratus, the crushing of Aegina, the exile the flight to Thessaly, the intrigue in Arcadia; but these shows of vigour would confirm rather than refute the gloomy opinions held at Sparta of the latter part of the great king's reign. His feverish activity was disastrons to his country, or would have been called so in the next generation; he strengthened the hereditary foe by weakening Aegina, he was the cause of the first of that long succession of royal banishments which shed a gloom over Sparta in the fifth century, and he showed the weakness of Lacedaemonian hegemony by anticipating (vi. 74) the most serious blow which it was to suffer from the great Epaminondas more than a century later. Better, a Spartan would have said, 'any amount of sloth than such activity as that of Cleomenes in the last short period of his life."

I have not attempted to discuss the chronology of these last years, because it seems to me the data are quite insufficient. It certainly appears that some of these final acts of Cleomenes must be subsequent to Marathon, and it is most natural to put his death about 488. But, as I have said, there is no real evidence on the point; and in any case it does not matter. Cleomenes activity at the beginning of his reign had been the determining force in Greece; all agree that he was the final organizer of Lacedaemonian injunction and the (involuntary) creator of the Athenian democracy. His later acts have no results; the old order of things had changed, and new problems had to be faced by new actors.

To sum up my points then ; it seems :

(1) That the early dating of the successes of Cleomenes suits all the passages in Herodotus—except the mysterious oracle.

And it enables us to accept the direct statement of Thucydides,

(2) What is to my mind as important, it suits the whole tone of Herodotus' narrative as to Cleomenes.

(3) It is in accordance with all probability. Cleomenes is one of those meteor-like princes whose reign begins with success, and ends with gloom. He is like Francis I. of France or Charles XII. of Sweden. But I confess I am unable to find a parallel for him if he crowned the last years of his long reign with his most brilliant success, and yet, in spite of it, died under a cloud of obloquy.

(This paper was read in substance before the Oxford Philological Society in May, 1904. I have tried to incorporate certain points which were raised in the discussion which followed.)

J. Wells.

### THE GREEK WARSHIP.

(Continued from page 156.)

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The evidence considered under D makes it, I think, impossible that the accepted theory can be true as regards the larger polyere of the first three centuries s.c., which clearly were galleys a scaloccio of some sort. If what is put forward under A be true, the reason why the accepted theory was invented and has been so largely believed disappears. Nevertheless, there is still room for evidence that will support the accepted theory as to triremes generally, the quadriremes and quinqueremes of the fourth century, and the biremes of the first; and the theory may be true, even if the words thranite, angite, and thalamite do refer to another arrangement.

For a trireme, said Cartault, the evidence is overwhelming. Unfortunately he omitted to mention what it was, and with the best will in the world I have been unable to discover it. Assmann (1610) relied solely on the monuments. Luebeck however gives Schol, on Aelian's Tactica, Schol, on Frogs 1074 (see under A), Arr. Annb. 6, 5, 2 (see under B), Pollax 1, 87 (see under A), and Frogs 1074. Let me add Livy 33, 30, Aesch. Agom. 1617, Luc. Phars. 3, 529 see

The Scholion on Aelian 78 (which I do not consider evidence) would be quite well satisfied by a galley, whether one a zenzile or one a scalocoio, in which the rows of rowers, taken as parallel to the long axis of the ship, should rise somewhat from the side of the ship toward the long axis. The phrase exstructi remigis of Luc. Phars. 3, 530 79 may well refer to the same thing:

#### Janaturum.

<sup>&</sup>lt;sup>77</sup> According to Lunberk, its first modern improver was Scaliger, relying on Schol. From, 1074. But it existed when I'm Balf wrote in 1536.

<sup>25</sup> a possess and Rahpes and Apagins are sold evigous rade area of four of AAAAAA. Should anyone think I am unfair to the echolisals, I would now refer to the chapters entitled 'The explaining of obsolete words' and 'The explaining of matters of fact' in Dr. Retherford's second volume of Chapter on the History of

Validasqua (firemes Quasqua quator surgens exatrnell emilgia certo

Commovet, . . . . .

Celmor at cunctis Brusi praeturia puppia Verberitus senie agitur molemum profundo

Invehit at summie longe petit nequora rome.

while the 'summis... remis' of line 537, translated of course as 'thranite' oars, really answers to celsior two lines earlier; Brutus' hexeres was higher than the other ships and its oars were (necessarily) the highest and longest in the fleet. Agam, 1617 may only mean that the thalamite sound were, or had once been somewhat nearer the water than the zugite squad, as is probable enough; unless peprépa be a mero convention. Frogs 1074,44 taken literally, is of course dead against every version of the accepted theory, except Graser's: it no more suits Assmann than it does Bauer, Fincati, or Weber; moreover that θαλύμαξ = θαλαμίτης is more Scholiast's guesswork. It is undoubtedly a bit of slang; Fincati refers to a similar expression in the Venetian dialect, and probably a professor of argot could parallel it in every

language.

There remains Livy, 33, 30.11 Bauer (p. 462) and Weber have recognised the truth of the old view that the larger polyereis were named from rows of roners; but the use of ordines remorum (or versus remorum) requires clearing up. It is obvious that, on any theory, it was a matter of indifference in a trireme, with one man to one oar, whether one said ordines remorum or ordines remigum. The Ramans seem to have inclined to ordines remorum, the Greeks to grove torrier. When the calleys a scaloccio came in. ordines remorain ceased to be correct, but people went on using it; instances. of such 'survivals' are common enough in English. This is strongly borne out by a passage in Florus, which has not been cited: 2, 21 (4, 11) Antony's ships at Actium had a senis in novenos remorum ordines, Octavian's a binis comique in senos ordines. They were of course built on the same system; it was indifferent which phrase was used.44 Ordines remorum then means only "rows, like ordines.

The only two phrases in all this that are of much use to an upholder of the accepted theory are Lucan's exstructi remigis and the Scholion on Aelian One cannot build a theory on one epithet in a poet, and both phrases are, I think, easily explicable; but in case anyone should suggest that I find it convenient to say that the Scholion on Aelian (whatever it may mean) is not evidence, I would point out that, if I may cite scholia, there is one on Thuc. 7, 40, 5 which almost settles the question.44

at reportuelle for the evolute of Subdiment Anyone inclined to take this literally should read Juriou de la Gravière's remarks in Lo-Marina des Amiens.

ing passage in Polyhius. " This may help to explain Lucan's 'smisverberibus' (n. 72) which refers to one hexcess

Quant sextletim versus remoram agabant.

A translation of term Seempre in the correspond-

only, and should on the accepted theory be sex verberrious, if it were to miss to the beat of the six banks. It means 'with stafeld strokes' strokes worked (or made) by six (men) appears Lumm's quadriremes have not four ardines, but a fourfold orde.

" Thue. 7, 40, 5 the Syromonne in boats de той тарово столитичество техници чест. Robed, brokeduren bed role raprois. If the schol, he right, so Baner supposed, the accepted.

<sup>&</sup>lt;sup>30</sup> рь такта финах кактара тробанева sary, sparoverson the day Coyd Report

We have here a reference to a ship in which the augits was the most important person, and so not a triveme; and as it is too early for a bireme, it bears out section B ; it was a surface Maseres. The importance of the augue here same from his being the storn our; see n. 30. Is it not possible however that the contrast is between corumen and fighting men, with a play upon Sones !

Now as to the monuments. Breusing was the first to call for a thorough-going criticism. How badly it was (and is) wanted anyone can see who will refer to the astounding cases of misuse given by Mr. Torr in his

preface (p. ix); and these are by no means the only instances. 55

Omitting coins and Trajan's column, we are supposed to have about 15 representations of biremes, 3 of triremes, and none of larger ships. Of the 'triremes,' only one really matters, the so-called Lenormant relief in the Acropolis Museum at Athens (possibly fourth century). The 'biremes' fall into two groups, one belonging to the seventh and sixth centuries, the other to Hellenistic and Roman times. The most important of the latter group are the prow from Samothrace, in the Louvre (the only monument we can check by written evidence); the ship from the Temple of Fortune at Praeneste, in the Vatican Museum; and the Palazzo Spada and Ludovisi ships.

I do not count the river boats on Trajan's column. If any one cites them in proof of superposed banks, I may also cite them as proof that the upper oars were rowed over, or through, a fretwork railing, the lower without portholes; that the rowers used their oars like Canadian canoe paddles, 87 had

theory is in a bail way, of course. But the schol must be wrong. The same phrase in Dio Cass. 50, 32, 5 clearly means driving the ship scross the ours so us to break them; he adds so rat severs surphercover; and warships could not go under. Cf. Polyb, 16, 4, 10 furnitional driving rappeds.

See Baner 367 n. I on the so-called Malay bireme. See also two startling sections of triremos in Kopecky, Die Attishem Trieram (1890) plates 21 and 22, which he calls 'sehr beschtemwerthe Abbildungen alter Schiffe,'
from Rondelet. 'Die erste (fig. 21) ist der
Abdruck einer Medailie' ste. On turning up
Rondelet (1820) I found, of course, they were
Rondelet's own sections, the suest worthless of
guesswork; of fig. 21 Rondelet does not even
prefend to figure, or refer to, any original, but
meraly labels it 'after a medal.'

The two triremes in the Naples Museum, figs 1676 and 1691 in Baumeister, the first from Pomped and the other from Painoli, are, I think, of no great value, as the top ours could handly reach the water; but the way the ours are laid in threes, one astually upon the other, can be meant for nothing but three ours to a banch all issuing in a cheaf from one opening. The spirited Isis-temple ships, the only ones that give any idea of the general book of an ancient warship, are of no value for the 'problem.' I have not seen any representation of the Unibad 'bi-rems'; but according to B.C.H. 12, 100 the ours [14 in number) am in groups of two, side

by side. If not a moneres, it would seem to said little to what can be learnt from the Palazzo Spada ship. Two recent discoveries, the ship on a metope of the Treasury of the Sicyoniaus at Delphi (see Assumin in Jahro 1905, p. 32), and a graffito on the wall of a tomb near Anfinshi bay in Egypt, to which Mr. G. F. Hill kindly referred me (Dr. G. Botti in Bull, de la Soc. Archeol, of Alexandria (1902) p. 13 seq. and Admiral Biomiehi (h. p. 37), do not bear on the problem of the oars; though the latter ship (called late Ptolemaic) is interesting as showing a further development of the mayis ignifican used by the Rhodiams in 1900 n. c.

Every corsman will sympathise with Arenhold, Die historische Entwicklung der Schiffstygen (1891), when he says bluntly that every monument on which the ours 'gans stell in's Wasser tauchen' is salf-condemned. I would like to say the same of every similar reconstruction, and of every monument which shows an earanum grasping the our from underneath and with no possibility of getting his fant against anything. Mr. G. C. V. Holmes, Asrient and Modern Skips (1900), suggests that the monuments show that the art of rowing was not understood till the Liburnian came in. But some mediacral pictures size show the ears at an absuid angle , e.g., C. A. Levi, Nara Vennis, pls. 28 and 31 ; and it seems incredible that any people should row for conturies without discovering the proper angle for the our to make with the water.

one hand under the handle, and sat bolt upright at the end of the stroke, and that a bireme had only eight oars aside, and a long list of other absurdities. The oars of the 'trireme,' in particular, are just plastered on anyhow; and it is an open boat, 'The design' says Mr. Torr 'makes little pretensions to accuracy.' It is high time that it vanished from the text books.

And I need hardly say that I do not count dal Pozzo's sketch, interesting as it is; for it is not known from what it is taken. 88

The prow from Samothrace. Assmann has been much praised for calling this a bireme. But, apart from the question whether the holes seen in the monument are really portholes, if one assumes, as certainly Assmann does, and I think every one else, that the monument celebrates Demetrius' victory at Salamis, certain consequences seem to follow as matter of history, which must be considered.

In Alexander's lifetime quinqueremes were the highest value in use. Somewhere between his death and the first Punic war the change of system that introduced the scaloccio galley (see section D) must have taken place: and as the higher values undoubtedly took their origin as fighting machines from the time when Antiganus the One-eyed resolved to build a fleet and command the sea (Diod. 19, 58 and 62), we shall not be far wrong in assuming that the change of system originated at the same time (though this is not perhaps very material), both alike being due to the inventive mechanical genius that made Demetrius famous as the Besieger of Cities. Demetrius with the new fleet, including seven heptereis and ten hexereis, beside smaller values, sailed for Cyprus, and met Ptolemy, who (naturally) had nothing larger than quinqueremes, at Salamis. Demetrius massed his strength, including all his heptereis and hexereis, on his left wing, which he led in person on a hepteres; and the picture given by Diodorus of Demetrius in

Some published it (Arch. Zeit. 1874 vol. 32, p. 71). It is now in the British Mussum (Dept. of Gr. and Rom. Antiq.). It is containly not a drawing of the Lengmant relief.

With a possible reservation in favour of one or more haveness in Sielly, u. 51. that the Carthaginians had get the new system and the Romans had not. Polybins does not say that they copied a stranded quinquerems; he says (1, 20, 15) that they built their whole fleet (i.e. quinqueremes and trirenes) on the model of a stranded satuphysic. Thee's criticism (Rins. Gench.<sup>2</sup> 2, 49), that they had Syracusan models to hand, is beside the point. We, for instance, had many English models to hand in the Napolsonie war; yet I have read that we often copied the lines of French prizes.

According to Diod. 19, 62, three emusics and ten diskerols were built. This may be an anticipation; anyhow, they did not go into action. Plutarch gives me details of size. Beloch, Gr. Gench. Hi. 1, 159 n. 1, defends Diodorus' account, as against Niess, and says it is the best picture of a == light of the time that we possess. This seems to overlook the lattic of Chios just a century later.

Two slits in the racetesperia, on which Eins. Das Rudern bei des Altes (1896), has based what appears to be an attractive theory of the Siexeless. I have not seen his book. Torr follows Omser in saying the holes are for ropes for an anchor: but if so they should be further forward. If they are not partholes, this hepteres had seven near to an our, as the monument characterist in ours could be towed anywhere except through, or making on, the rapeterson.

<sup>\*\*</sup> Polybins has been so abused for saying that the Romans had no experience of building quinquiseness and required a Carthaginian model, that I feel the utmost diffidence in suggesting that the basis of the story is murely

action on the stern of his big ship, rejoicing in the battle, with his three armour-bearers fallen round him, is not only entirely in character with all that we know of Demetrius, but is the sort of picture that becomes traditional and gets handed down correctly. He gained a crushing victory, due to his own big ships which he had led in person (his other wing was defeated); and we might know, even if Diodorus had not expressly said so, that Demetrius, being such as he was could not belp sending the biggest ship he had to carry the news to his father. The impression the big ships made in the Hellenistic world was great; Demetrius built bigger and bigger; Lysimachus tried to rival him; in mere size the Ptolemies soon went far ahead of all competitors. And in the face of this, how can the prow of Samothrace represent anything but Demetrius hepteres, any more than a monument of Trafalgar could represent any ship but the Victory! And if this prow be a hepteres, the accepted theory goes by the board at once as regards heptereis.

Assmann's selection of a bireme to explain this monument seems most unfortunate. He calls it the 'swift Aviso' sent to carry the news. But Diodorus (20, 53) says a hepteres (την μεγίστην ναῦν) was sent: and one cannot advance by throwing over even Diodorus without good reason and taking to guesswork. If it is to be a bireme, one must begin by showing that it has nothing to do with the battle of Salamis. But the real point is that there is no evidence for the use of biremes at all till far later. I may well have missed some inscriptions; but subject to this, I believe that δτήρης hardly occurs in Greek at all, and not before Pollux (second century a.p.); biremis is not found in Latin literature before Caesar and Cicero, or referring to an earlier period than theirs \*\*i\*; δίκροτος has already been dealt with, \*\*s and only takes us back to the Mithridatic wars.

There is then no reason for calling the prow of Samothrace a bireme. Its elucidation as such is a good instance of a method which seems to me a wrong one.

The Dipylon 'biremes' have been explained as a first attempt at perspective, 26 and this may be true; but they may also be due simply to the

<sup>21</sup> Lysinuchus' great okteres, the κεσυτερόρον, is said to have distinguished itself in the son-fight between Ptotemy Keramos and Antigonus Gonates; Memnon 13 = F. H. G. 3, 584, πδ δξαίεντον έφερεν. The change of system obviously came in before this ship was built, whatever Memnon's description exactly means.

Livy 24, 40 (nuntiantes, Philippuni primum Apollouism tentasse, lembis biremibus centum viginti flumine adverso subvectam) is an apparent instance to the contrary. But we know all about these lembi, which Philip had built on the Illyrian model (Polyh 5, 109) and which fought so well at the battle of Chics; and they were certainly not biremes (n. 60). The explanation is flumine silverso; they were

going up stream and to get more power the oars had been double-banked for the occasion. Double-bank, "to provide . . with two rowers for each oar"; see Murray's Pict s.c. I wish to thank my friend Mr. Colin Campbell for calling my attention to this word, which he tells me is still in use, and which aptly explains this puzzling passage. As to Pliny 7, 56, see Appendix.

<sup>10</sup> See tt. 40.

<sup>\*\*</sup> Pernice, Geometrische Pass mit Schiffdarstellung (Anhrè 1900, p. 92), on the ship published by the late Dr. A. S. Murray, J.H.S. 1899 (vol. 10), 198. I gather that in 1900 Pernice no longer held the view he had taken in 1892 as to the fragments of dipylon-ships.

desire of a very crude artist to show two sets of oars because he knew that a ship had a set on each side. It is difficult to see how any one ever took such a ship as that in J.H.S. 1899, Pl. VIII., for a bireme of two superposed banks; for even an artist of the Dipylon period may be supposed to have known that ears should be able to reach the water and not stop short in midair. And if, as Pernice, Helbig, and von Wilamowitz have supposed, these Dipylon ships are Athenian, how came Athens to return for a couple of centuries to the more humble ships of a single bank? A question often asked and never answered. Assmann avoids it by calling the Dipylon ships Phomician.

There are three Assyrian reliefs from the palace of Sennacherib, one in the British Museum, and two figured but not brought home by Layard, of which one has no ram. These shew oars in two rows, at no great interval of height, arranged in a zigzag thus '.'.'. the lower oars in the intervals of the upper ones. The same thing is shown on two ships on an Athenian B.-F. vase of about 500 B.c. (B.M. Vases, B. 436), and possibly in the ship on an Etruscan B.-F. vase (B.M. Vases, B. 60), though this latter is of little value for the arrangement of the oars. None of these ships can be biremes, which are unknown to every writer before Casar. The silence of Thucydides, who gives a sort of history of shipbuilding, is most material.

The Praenestine 'bireme.' According to Assmann, this relief belongs to the time of Augustus; according to Torr, to about 50 A.D. It shows two superposed banks with a very small interval between them; perhaps it would be more correct to say it shows the arrangement .... The higher bank issues from the outside of, the lower from the under part of, the wapeferperia. The distance between the banks is too small for the accepted theory, to which it gives no support; but if it is in fact a bireme, then it may support Bauer's theory for biremes of the sarly empire. Whether it really is a bireme seems to me, I confess, very doubtful. Biremes were undoubtedly light and swift; but, allowing that in this relief, if to scale, the oars would be longer and the men smaller, it remains anything but a light or speedylooking ship; compare it with the Isis-temple ships, for instance. Then it carries a turris. We do not know that a bireme never carried a tower, certainly; but we do not know that it did; I think the smallest ship referred to with a turris is Eudamus' quadrireme at Side (Livy 37, 24), and after all one can only argue from the facts that are known.

Figs. 5 and 6 in his article in Ath. Math. 17. Assument claims to have refeted Pernice, (Arch. Am. 1901, p. 98); and his point, that the Dipylon chariots show one horse beyond and not core the other, is a fair one. But he does not apparently) deal with the three things that seem conclusive, viz. —(1) the supposed upper deck has no supports; (2) the supposed upper dars are cut off short on reaching the (supposed lower) deck, r.c., full on the other side of it; and (3) the structure is lower than the supposed

upper rowers.

It is well known that almost all beginners will try to draw, not what they see, but what they know to be there. A case exactly in point appears to me to be the idea of some savages, that a drawing in profile represents half a man only. This would meet Assmann's point about the chariots. It is easy to show the further horse beyond the other, but very difficult thus to show the further carymen.

The Palazzo Spada and Ludovisi reliefs.\*\* These are Roman copies of the same Hellenistic original, of unknown date. The arrangement resembles that in Fig. 2, onto, and the original may have been a bireme; but it may just as well have had several men to an our. And the two copies do not agree. If it was a bireme, then Luebeck's definition in Pauly-Wissowa is wrong, for its oars form one line in the water and not two.

Now as to the 'bireme' question generally. If the holes in the prow of Samothrace are portholes, and supposing that the Praemestine ship is not a biremis at all, but a large admiral-ship, as is possible-note the laurelwreath -we get a breit-polyeres system in which two oars appear at unequal levels, a hepteres, e.g., being rowed by three and four men to the ours respectively; again as at Venice. This seems to me quite possible, and would explain the fact that every monument that we possess which shows or appears to shew any form of superposition (except the two ships at Naples, Trajan's column, and the Dipylon vases) never shows anything but two rows arranged thus . . . . . and we may perhaps imagine, founding ourselves on the Assyrian reliefs and the black-figure vases mentioned before, that such an arrangement of two rows has nothing whatever to do either with banks or ordines or the terms ending in -npms, but is merely an arrangement of old standing in the Eastern Mediterranean, applicable in many forms. As we possess very many references to triremes, quadriremes, and quinqueremes, and (omitting inscriptions of the Empire) very few indeed to biremes, to call nearly every monument a bireme is a historical absurdity. I would suggest that from early times there were two arrangements; in one the oars issued from the ship in a straight, in the other in a zigzag, line; from the former was developed the trireme; the latter, perhaps in abeyance in the 5th and 4th centuries, was again utilised, perhaps with modifications, for some of the larger polyereis of Hellenistic and Roman times. This seems at any rate worth consideration.100 We have to explain Demetrius' hekkaidekeres somehow and two oars of eight men apiece would be more feasible than one of sixteen tot. As to what the zigzag arrangement precisely means, I have no theory; what is and is not mechanically possible in the way of alternation must be left to others to say. I merely note the lines on which it would

that in mediaeval times more than ten mente am our were ever known. It is possible that the performation of Demetrium' heckandeheres, which so pleased Plumech's authority, (Dem. 43 vb vaxor set vb 6,790 iljusterviveous vai peystors), was only a 'contractor's trial' with a picked crew and very favourable conditions. Yet Philadelphos' extraordinary fleet (Ath. 203d) cannot have been morely for show; though the account may be exaggerated, as Beloch supposes. Livy's translation of iscensisations (n. 82) seems to dispose of the otherwise attractive view that the highest terms were arbitrary and merely denoted so much extra tourage.

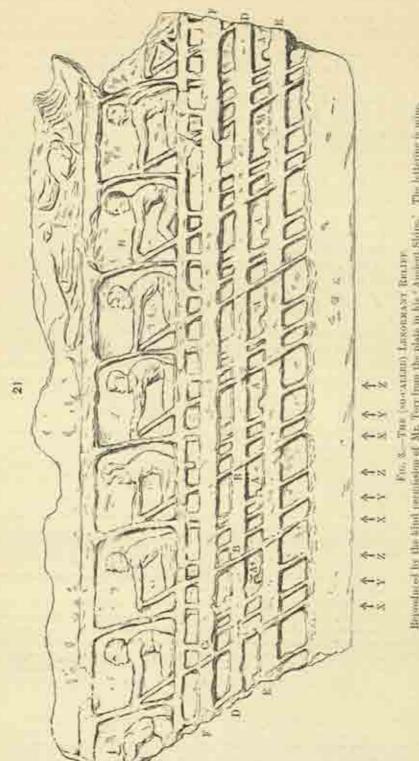
<sup>&</sup>quot;Schreiber, die Hellewistische Rellefeilder. Pla. 10 and 28\* respectively. See the two together in Dar.-Sagl. a. v. navis.

For such a hepters at Venice, Fincari, p. 196. It does not however appear if the cars in the Venetian ship were at unequal levels.

Though I do not assept Bauer's hypothesis of the larger polyereis, I thoroughly agree with his conclusion; '[Meiner Hypothese surfolge] ist as unminglish, den Typus eines Schiffes nach der Zahl der auf einer Darntelling sichtbaren Ruderreihen zu bestimmen' (p. 463).

<sup>(</sup>p. 463).

Nothing larger than a dekers is known to have gone into action; nor does if appear



Beyonfated by the 47nd permission of Mr. For from the plate in his "Amount Sidns". The lettering is name.

appear that the 'bireme' problem must be solved, if due regard be paid to the evidence; and I rather think that the bireme is the key to the whole matter. For instance, I know of no evidence that the oars of any ship ever formed two distinct lines in the water, let alone more than two. 1014

There remains the so-called Lenormant relief, (Fig. 3), which has (unfortunately) caught the popular imagination as the one remaining representation of a trireme, largely owing no doubt to the inaccurate representations originally published. As soon as accurate plates were available, the idea that Y and Z were the oars of the two lower banks was seen to be untenable in its original form, which took both Y and Z across the timber E.E. and made A.A. the portholes of the lowest bank Z.Z. Assmann accordingly, while still calling Y and Z the 'zugite' and 'thalamite' oars, has to place their ports below or under E.E., (there is no sign of such ports in the relief itself), and to treat the design in effect as an abnormal trireme, with a very long 'thranite' bank and two stunted lower banks of almost equal length; and this explanation has been largely accepted.

If we take the relief as it now is, and if it is to be a trireme, no explanation but Assmann's is possible, as I think will appear from the subjoined letter in from Mr. R. Carr Bosanquet, who, in reply to some questions of mine, kindly examined the original for me, not knowing for what purpose I required it done. As to the matter of paint, or low relief, now lost, this is of course a double-edged weapon; and I submit that it is indisputable, either that we must take the relief as we find it, or that we must say that it is too worn to draw any deductions from, one way or the other. The raised lumps AA cannot of course be portholes, as Assmann saw.

Granted, however, that, if this relief is to be a trireme, Assmann's explanation is, on the facts before us, the only possible one, it is not easy to take it seriously. Why are we entitled to invent portholes, when the relief

the One of Weber's points is the single line in the water.

Taken T, and Hards (whose paper I have also not seen) Y and Z, norse EE. Since this went to press, I see that the older view is still taken by Torr in Dar. Sagl, and by Mr. E. Conylsare, Trivener, 1904.

<sup>100 +</sup> No sign of Y and Z crossing over the transverse pieces. The surface is much weathered and perished, and they may have done so in very low relief, now lost—or even in paint; no doubt the thing was made far more intelligible by the colouring (of which naturally no trace remains, but it must have been those), AAA are counted knois projecting vertically above the transverse strip E, but with their faces in the same plane as the face of E.

<sup>&</sup>quot;I think Torr's drawing (which I have examined since looking at the stone) example alis the disturbed surface of the water I there is a raised hump where X meets the water in the case of caremen 1, 3, 4. No such lump in the case of Y and Z ; but this must not be pressed." All these points come out clearly on a rest in the Inner Temple Library, which also shows another point referred to by Mr. Carr Bossa quet, and not appearing in Fig 3, viz., that X seems to just over F in the case of earemen B, 6, and 8, se well as 1. The raised lump in the water round X, as compared with the smoothtuss where Y and Z meet it, is meet distinct in this cast. The agues in Baumeister, reproduced by Luebeck, is from a rest in Berlin, bur is (admittedly) much trucked apand 'completed.'

does not show them, and when there is no evidence, monumental or otherwise, for portholes <sup>104</sup> low down on the ship's side in a polycres? How, if we are to invent them, can they be placed 10 inches, or even a foot, <sup>105</sup> above the normal waterline, where the least sea would prevent the oarsmen from clearing the water, and where a slight roll, or some change in the waterline, <sup>100</sup> would send them under water altogether? And how, if we do place them there, could the oars be got in and out quickly in the face of the enemy, as was done? <sup>107</sup> And why, if this be an Athenian trireme, has it no \(\pi ape\geq \exists \exists \exists \exists \exists \text{and which is well attested by Thucydides for the fifth century and Polyaemus for the fourth? And why are Y and Z to be distinguished from the precisely similar streak (not lettered) running parallel to the upper part of Y, which cannot by any possibility be an oar?

Neither are we justified in supposing this to be an abnormal trirame. There probably was another type, the trihemiolia; <sup>101</sup> but short of eluct-dating this relief as a trihemiolia, should anyone care to, we are bound to suppose that triremes, at one and the same time, were all of one type as regards the arrangement of the oars. <sup>100</sup> Fifth century: Thue, 2,93; Brasidas led over the Isthmus crews from the fleet of the allies, furnished by a number of different states; they all brought their oars, confident that these would fit the Megarian triremes at Nisaea; and they did. Fourth century: for Athens alone the lists are conclusive. For Athens and Sparta, excerpta Polyaeni 40, 2, Iphicrates deceives the Laconisers of Chios by sailing in κόσμο Λακωνικό: had there been a difference in oarage he could not have hidden

100 Even Mr. Torr's storchouse of quotations buils here. Hered, 5, 33 (which I shall come to presently) is certainly not such evidence. Pollus' τράματα is quite satisfied by opening-in the rapsfaperia; and none other appear on the Praenestino and Palarzo Spada ships, and perhaps I may add on the prow of Sumothines. (The portholes are however low on the Delphi ship, which is a moneros; but the gunwale is low also). δελαμία is not connected with thalamite, technically, and does not mean the thalamite ports, but any port (Ar. Δεδ. 553) or any opening (Ar. From, 1232).

ies Torr, p. 45, who takes AAA as the thalamite portholes, about one foot above the water, but points out the difficulty of squeezing in the rowers.

100 See section D (a), and n. 75.

were not mosely drawn inboard, but the ours were not mosely drawn inboard, but taken right out. The same manocurrs is Polyacu. 1, 47, 1; 3, 11, 3; excerpts Polyacui 57, 9. This is obviously dead against the portholes being covered with leather bags, the only alleged support for which is the Pracuestine ship. There is no proof that the Athenian &xxxxxxxx

were such; the only passage is Zanaras, who shows his ignorance by saying that the areanara were fustened to the oars, the Athenian lists showing that they were featured to the trirenne. Pollux 1, 88 th spòt abrê tê sunhaé Aigua forcupa is more likely to be correct. But I suppose that the notion that the most intalligent people in the world first 'honeycombed' the sides of their triremes with holes larger than a man's head, and then covered the holes with leather bage to keep out the water, will die very hard. Why some of the text hook writers believe that the oars were put out from the inside, blades first, instead of laying the handles passed in from outside, is to me a puzzlo. It also seems to me to be a grave question whether cars could be round at all through the sides of a bout as light as a trireme without pulling her to pieces in a short time.

100 See 4. 11.

16\* I do not mean more than "at the same time." We cannot for instance prove that the arrangement of the fourth century we that of the first. See however under P. Some writers assume a new arrangement of only to explain each monument. it, but must have betrayed himself at once. So exc. Pol. 58, 3. And as a general maxim of warfare, the same in exc. Pol. 57, I. We do hear of considerable differences between the models of different states, both as to triremes and quinqueremes, but always in one respect only, weight or stoutness; a difference of oarage is never hinted at.

But the real objection to Assmann's view is, that it demands (judging by eye) an upper bank of oars that shall be more than twice the length of the two lower banks. Such a ship is impossible; for if one thing be more certain than another, it is that oars of different lengths, where the difference bears more than a certain proportion to the length, cannot be rowed together, by one man to an oar, so as to be of any real use or turn out an efficient ship. That they might be rowed together in a certain way for a short time I do not deny; but the huge increase in the ratio of dead weight to power would at once put an end to all idea of speed or efficiency.

The Lenormant relief is, in fact, a moneres, and a simple one, as Bauer has always said;  $^{\rm III}$  and Y and Z are part of the hull.

### F

I trust I have now made probable the five propositions with which I started. The deductions from them—remembering that we have to do with reasonable probabilities only and not certainties—are, first, that a quinquereme of the last three centuries s.c. was a comparatively light galley of five men to an ear; secondly, that the ships from hexereis to dekereis may have been similar galleys of so many men to an ear, or may have been some other form of scaleccio galley, e.g., one rowing two sets of ears in the arrangement '. '. '; and thirdly, that Roman biremes may well have been nothing but double-banked monereis, perhaps modified a little; this last however is mere opinion.

It is however pretty clear on the evidence that the accepted theory

disproportionate increases in dead weight. Schmidt here almost takes up the position that, if practical caramannship forbids his dadactions, so much the worse for practical caramannship; the 'thranites' had 'crkeblick hingers Rieman. . . Une dissen Schlass kommen wir nun simual night hering, wir magen um drehen und wenden, wie wir wollen. Die numbaft verschiedes hingen Rieman, also unch alle thre Konsequencus, sind Imistrhende Thatsuche' (p. 17; italies mine). Once more, whatever thremits means, there is no evidence of any sort that the thranite ears were weed longer than the others.

iii Bauer remained of the suno opinion after examining the original; see his review of Schmidt in New Phil. Randschau, 1900 p. 301.

us I am bound to refer to this emiroversy, on which so much has been written in Germany, and which has produced the greatest gem of the whole triceme-liberature, the theory that the 'thalamites' may have taken 4 strokes and the 'angines' 2 to the 'thranites' 1. become a planist can play in three-time with one hand and four-time with the other. tilven more than a cortain proportionate difference in length, it is matter of mathematical demonstration, as well us practical knowledge, that the oars cannot be rowed together by one man to each our so that each our should do jus best and each man pull his weight, e.e., his own and his share of the ship's ; and therefore such added bank after the first means a relative less in power, owing to the

cannot apply to any of the above; but the question of the trireme, Greek and Roman, and of the quadriremes and quinqueremes of the fourth century, is still open.

Herod, 7, 36: Xerxes' bridge over the Hellespont was laid on triremes and pentekontors. They were therefore of approximately equal height; and this seems to me very strong against the accepted theory, as regards Phoenician and Ionian triremes of 480 s.c.

Assuming the similar low elevation of an Athenian trireme, which is also a necessary consequence of its shallow draught, there remain only two theories, those of Bauer and Fincati respectively. To adopt Bauer's, one has to say, first, that the Praenestine ship is a bireme, and, secondly, that one can argue from a Roman bireme of the time of Octavian to a Greek trireme of the time of Pericles. Both these views are feasible enough, and I think therefore that Bauer's theory must remain a possible one. But for my part I do feel a great difficulty in arguing from a given monument to a ship of four conturies earlier. It is a question of individual opinion, no doubt; a rowing galley has only limited possibilities of development, and the great pace at which ancient fleets were built, indubitable even if exaggerated in detail, may well point to stereotyped models; but if I am right as to biremes not being in use till the first century B.C., I do not feel that they can have much bearing on the Athenian trireme. If this should be correct, the direct evidence for Bauer's view of the Athenian trireme has gone. Moreover I do not think Bauer claims that his view will explain the fourth century quadrirenes and quinqueremes, which must be explained; and it may be that Fincati's will. 132

Was a trireme then in the nature of a zenzile galley, with three men on a bench t

Galen, dr usu part. 1, 24. Why are the fingers of different lengths and the middle one the longest? In order that when they close round an object the ends may come equal. So in triremes the ends of the oars all fall even (i.e., make one line in the water) though the oars are not of equal length; for there too (i.e., in the trireme as well as the hand) the μέσαι are made the longest (note that he refers to the oars and not only to the inboard partions) for the same reason. These last words can only mean 'in order that the ends of the oars may form one straight line like the ends of the fingers.' Now if any oars were the longest, considered as a group, it was the thranite oars.

Athenian lists do not mally prove that the oars of a trimene were used for a quadrirone.

Its Fineati seems clear that no senzis galleys larger than triremes were in use at Venice; but it is generally asserted, on Pantem's authority, that quinquerouses a reazile were used. In Pantem's time the zenzile galley was only a memory. A thing might however be feasible with the shorter Athenian ears that was not so with the Venetian. How many difficulties would be avoided if one could only agree with Belsich (Fr. Gasch, 2, 470) that the

<sup>118</sup> capatry of an aby the trainers to report the entire of the state are appeared to the state of the state o

and not those amidships (zugita),  $\mu\acute{e}\sigma ai$  then is not zugite (probably if he had meant zugita be would have said angite); and the  $\mu\acute{e}\sigma ai$  had not to be longest so as to get all the ends level,  $\mu\acute{e}\sigma ai$  then are the oars of the horizontal row or ordo nearest to the middle line of the ship drawn from stem to stern, and the trireme known to Galen was a breit-polyeres, probably in the nature of a zenzile galley; 125 for the oars, if the ordines were distinguished by their position relative to the long axis of the ship, must have been all on a level, or thereabouts.

Now arises the question, is Galen an independent anthority or is he using or referring to Aristotle (Mech. 4) \* 108 First, let us assume that he is using Aristotle.

As the text stands, Aristotle begins by saying (1) that the merores do most work; (2) that the fulcrum of the oar-lever is the thole. (2) is of course wrong in fact; if then (I) was right in fact, the perforest must in fact have had the longest oars; and, if the passage is to agree with Galen, as explained above, the μεσόνεοι must also have had more our inboard than the others, and so Aristotle says : ἐν μέση δὲ τῆ νηὶ πλείστον τῆς κώπης ἐντός ἐστιν. So far all is plain sailing. Then come the following words, explaining weren; και γάρ ή ναύς ταύτη εύρυτάτη έστίν, ώστε πλείου επ' Δμφότερα ένδέχεσθαι μέρος της κώπης έκατέρου τοίχου έντος είναι της νεώς, ε.ε., μέση means amidships, and the whole passage, as a source for Galan, becomes nonsense. The rost of the chapter (allowing for the mistake as to the fulcrum) is excellent sense and suits Galen very well. If then Galen was using this chapter, he was using a text in which the words και γάρ η ναθε, etc., did not occur, and I may therefore strike out these words as a glass. But perhaps these words do snit Galen, and it is only my explanation of Galen that is wrong? This, I think, is forbidden by Galen's words, διά την αὐτην αἰτίαν.

Suppose now that Galen was not using or referring to Aristotle. He is then an independent authority; but one must attempt to construe the more important Aristotle on the basis of the words καὶ γὰρ ἡ ναῦς, etc., forming part of the text. The passage refers to the inboard length of the cars ἐν μέση τῆ νηὶ νηὶ here is either confined to a moneres or not. If it is, as is often assumed, them the passage construes well enough, but has no bearing whatever on the accepted theory, or my theory, or any other theory. But if νηὶ refers to, or includes, a trireme (as it obviously must), then, (if the words καὶ γὰρ ἡ ναῦς, etc., be included) μέση means amidships, μεσόνεοι mean what I call zugites and my zugites do more work than my thranites; and as this

10 The chapter is too long to cite in a note.

This (the word alria) is conclusive against μέσαι here meaning amidalities, whatever theory we adopt as to the trimme; for the ours amidalities would not have to be the longest to make the suds come level; indeed if they were the longest the ends would not come level. It seems equally conclusive against Canylesro's view that μέσαι means the middle of three superposed banks.

The explanation is substantially Fincati's, though he does not apply it to Galen. He says they had two zenate triveness at Venice, in one of which the cars formed one even line in the stater. To the same effect is Aristor, do part, casin, 4, 10—the handle of the same produces traverses a greater space.

will not do, the passage must be taken to shew that the term 'zugites' means a row or ordo and not a squad; this is of course against me, 117 Assuming then for a moment that it does shew that the zugites were an ordo (and it does not matter now whether we take the accepted theory, or Bauer's, or Fincati's, they all agreeing that the zugites were an ordo), we land in a very grave difficulty over the mapegeipegla. This must of course have formed a straight line parallel (more or less) to the long axis of the ship, and not a curved line following the ship's side, one object being to give the oars all along approximately equal leverage throughout each ordo; 118 and if so, the oars amidships of any ordo could not be longer inboard (i.e., from the σκαλμός) than the others of the same ordo in any ship, such as a trireme, which carried a mapeFerperia, the meadpoi being of course in the mapeFerperia. If then this is well founded, mean amidships, and therefore μεσύνεοι must have the same meaning as in Galen, 118 and I may omit the words και γάρ ή ναῦς, etc., as a gloss added by some one who was ignorant of the wapefesperia and was thinking of a ship with a curved side. If this be done, Aristotle means what Galen means. I do not then myself think that Aristotle is against me; but I hope I have stated the difficulty fairly.

I need only refer to two other passages. Polyaen 3.11, 7; Chabrias training some new men, took out the triremes oars, and placing on the beach great logs (ξύλα μακρά), so that the men sat one by one (ώστε ἐφ΄ ἔνα καθῆσθαι), thus taught them. I think the natural meaning is that in the trireme they did not sit ἐφ' ἔνα (else why be at pains to mention that they so sat on the beach?), but ἐπ' some other number, i.e., ἐπὶ τρεῖς, three on a bench; but I cannot press this. Herod. 5, 33. If a trireme was a zenzile galley, with the three oars issuing side by side from one opening, we can explain what Skylax' head was put through. The idea of a porthole for one oar larger than a man's head is not only unlikely in itself, 1186 but flatly contradicted by every published monument known to me that shews portholes and Herodotus does not speak of the man's head as being near the water, as many seem to assume.

The evidence then, for what it is worth, though terribly scanty and unsatisfactory, does lend colour to the idea that, as regards triremes, Fincati is, in the main outlines, right: 118 and we come round once more to the

<sup>&</sup>lt;sup>127</sup> The argument under B, C, D, and E is independent of the meaning of 'augite.'

This was the object of the telero in the mediaeval galley, and of the first importance, as Jurien de la Gravière points out. It gave the boat, seen from above, the look of a parallelogram with two projecting ends; see the frontispiece and pl. 7 in Furfenbach, also the rearmest trirems in Fig. 1, out. If I am right, then the range specialities itself, though possibly inclining is from stem to bow's summwhat

toward the long axis of the ship, must have been somewhat broader at the bow end than amidships; and thin agrees well with Tauc. 4, 12, where Bresidas falls sommed and swooning on to the resetesperia and does not roll off.

tibe I take perfered to be a technical term ;

<sup>199</sup> Even Assurant new doubts it; Jarkb. 1905, p. 89,

would go according to a writer in the

conclusion to which we have been tending throughout this paper, that the course of development in the Aegean was very similar to that which took place later in the Adriatic. Differences in detail, of course, there must have been; in but the conclusion as a whole does not seem to be in conflict with common sense.

One thing however seems to me to be abundantly clear: no evidence has yet been put forward that compels, or even seriously invites, us to believe in the accepted theory; and it is to be remembered that the burden of proof is on those who uphold that theory.

W. W. TARN.

## APPENDIX

I have received from Mr. Ceeil Tour a number of critical notes on both parts of the above article, and by the courtesy of Mr. Tour and of the editors of this Journal it has been arranged that the substance of them shall be here published, with my replies. Mr. Tour's remarks are given verbatim as far as possible, in inverted commus.

p. 139. If the rowers were in three divisions, 'how did they get their names! I conceive that the thalamites sat in the thalamos, or hold; the sugites sat on the regs, or beams, which formed the upper limit of the hold; and the thaustes sat on thrant, or thranges, which were seats above the beams.— There is I think no evidence for these thrani; and as to thranites, I should adopt 1 rot. Ridgeway's suggestion (Class Rev. 1895, p. 166), and derive the term from θρόνια, the clevated step or platform at the s'era on which stood the belinsman. As to thalamites, when an open beat first began to be partly decked, there would be a thalamos or sabin in the bows; hence the name. In Timacos up Ath. 2, 37d θάλομοι are the rabins of a merchant whip; and I know of no passage where the word simply means 'hold.' Polling 1, 87 says that the Rados της resp was called κέτου και γύστρα και διαφορίτριου, and that in the part where the thalamites sat it was also called δάλομου.

Academy, 1883 p. 219, is attained the great speed of 9 miles an hour, i.e., nearly threequartiers of the pure of an average University error from Putney to Mostlake. Unfortunately I have mover seen any details of what the best exactly was.

the So far as we have gone, there has been nothing to lead one to distinguish the Ruman trireme from the Greek. It is however just possible that in Polyls 1, 20, 15, we have a reference to a trireme a scalocito; the Romans he says, built their whole first (quinquerriers and triremes) to a Carthaginian model; and it, as suggested in this paper, the quinquerriers had 5 man to an our, those Roman triremes may have had 3. This would only accord still further with what happened at Vusies, where

tricemes on both systems are said to have been built. But even were thin so, the scalacelo triceme (if I am right as to Galen's meaning) was not the one that survived in the Aegean. At Venice, the galleys a scalacelo killed the tricems a scarile.

In The length of the cats, for instance. It might be attractive grasswork that the bench rose a little from the ship's side unboard and that the oars had separate purtholes very close-together; this would much resemble Bauer's theory, I think, and might be a macful subject for experiment. It has been suggested by Mr. Cook, whose citation of the \*pioxad\_noisise of Acach. Pers., 670, for the zenzile trireme is most happy, as a reference to Fig. 2 (mats) will show.

pp. 140, 141. Polyann, 5, 43 and 8, 11, 14; Polyb. 16, 3. 'The Athenian triremes had sixty-two oars in the thranite (or highest) bank, fifty-four oars in the zugite (or middle) bank, and fifty-four in the thalamite (or lowest) bank. Consequently, the thranite bank of ears was longer than either the zugite or the thalamite bank. And this would naturally be the case, for all three banks would start from ahaft the eathesds, and the thranite (or highest) bank could extend further back toward the stern than the other two banks, owing to the sharpness of the run in ancient ships.' The three passages in question refer to the part of the stern to which the thranite bank extended.'—The numbers 62, 54, and 34, are the highest of various numbers given for triremes by the Athenian lists; but it does not follow that all these ears were in use at once. However, if Mr. Torr could shew that Callindes' ship was an Athenian trireme, and that a trireme had three superposed banks, his explanation might do for Polyann, 5, 43. It cannot apply to the tribenialia in Polyb, 16, 3, which was ramined sará picous to zoros; and Polyann, 3, 11, 14 depends on the

meaning of manufesperia; we post.

p. 140. In rendering Polyage, 5, 43, the word moddless is taken three times to mean "steerage" and once to mean "stern." It really means "steering-our." The phrase ro πηδάλιον ἔσχαζε is translated "kept using his steerage." It means "kept lifting his steering-our out of the water," i.e. coming to use it for steering," --- 'Stern' does not occur in my rendering of Polynenus, but in my own account of what happened, and is not mount for a translation of andulor. There is no instance, I think, of oyaco meaning to lift. It means to cut ; and when it is used in the phrase swage oxager, 'to stop rewing,' the meaning is that the our is (naturally) dropped fini on the water, so that the edge of the blade cuts through the surface; this was known to the Scholinst on Clouds 107 oxions you be sel some binarrikos sai Scargican to Doup the sound, though he is mistaken in adding latorovous. From this meaning again are derived two others (and perupopus raw (pearsorms); simply 'to stop,' and simply 'to drop' (Xen. Kya. 3, 5). Eryage to and alone is then 'he kept dropping his stearing-one into the water, i.e. making use of it; and this is the only rendering of the passage that makes sense, for Calliades must have turned his own ship now to one side and now to the other in order to avoid the enemy saff όπότερου ἄν ἐμβάλλειν μέλλοι. No doubt it was a technical term.

p. 141. Note 10. ""The new steering-ours were through the mape@openia: therefore, the old ones were not." This does not follow. Polymenus says hie the unpercuparion kara ros bourirday comus. He is specifying a point in the maps fewer in further forward than the position of the old steering-oars, namely, the point to which the thranite ours extended. Then as to reogeneeous in Periol Point Eur. 2, "the reference med be to a higher point, not a different point," i.e. from sero vice source. Of course, it is a higher point, because the ships were higher out of water at the ends (supulgressias) than in the middle (sura rds samus). But, unless it is a different point, the passage is meaningless. Then, Thucydides vii. 34 is made to mean exactly the reverse of what it does mean. The ships met the others how to bow (mrinpaper) and were damaged in the parts next the bow (nanegomerias). It is unfair to Thucydides to make him say that the ships met bow to low and thereby damaged themselves amidships. "But the absolutely decisive passage is Polyaenus, iii 11, 13. Chabrisa stretches skins over the supesciperia of each side of the ship and mails them to the deck above, thus making a conjugation which prevented the waves washing in and the ourseen looking out." If the see had been abeam, he would only have put the skins along the windward side of the ship. As he put them ow such aids of the ship, it must have been a head see or a following sea; and, as one of his objects was to prevent the rowers seeing the approaching waves, it must have been a following sea, for the rowers faced aft. In fact, there was a following sea in which his ship was likely to be pooped, and he protected her at the stern (rapefragedia). - I think there is no passage in which supefragedia intuit mean stern or bow, and cannot mean an outrigger or some analogous structure. I grant that Period. Past. Eur. 3 can be taken either way, and that Polyaen. 3, 11, 14 is not quite conclusive; though if managementa be the stern, why is it mentioned at all I And how is aid to be construed! Did Chabrins out a hole in the timbers of the peop! [Ana. Ships fig. 36 lithetrates how he put out his new steering-oars, I think.) Thus. 7, 34 states that no Athenian ship sank, but seven became draw, deappayerant the maps separate. It is incredible that none sank if their bows were torn open. Two triremus ramming bow to bow would rarely meet stempost to stempost with accuracy; the stems would slide each past the other, and carry away the forepart of the opponents' outrigger, which extended most of the ship's length. (I said nothing about 'amidships,') This was why the Syracusans strengthened their Imerites, i.e. the forward ends of the ontriggers. Cf. the distinction between ανηβρίξαι τζε παρεξειρεσίας and άναββήξαι The modern in Polling 1, 124. Polyaeu, 3, 11, 13 is decisive that the mapelequeria was something extending along each side of the ship so far as the rowers extended. Chabrias stretched skins imeg rus rapefespenias écuripor roixos (which in allver Greak can only, I submit, mean the mapegaperia of each side of the ship), and mailing them to the deak above made a opplypa moor ras mape geoperiar (plural), which (among other things) prevented the men getting wet and prevented them seeing the waves, oly bourter bid the too opplyments #poorbeore. No arrangement on the stern could possibly have this effect, apart from the reference to cataphracts in charges; and Chabrias could not possibly have carried out his idea at sen, with a crew so nervous that he was afraid of their apsetting the boat. The old interpretation of capefeiperia as starn or how is in fact a guess of the scholiast on Thucydides from the look of the word, the most rus elseries

Mr. Torr then reters to Dr. Assuman's view of the rape separa, which I have adopted, so being based on a misinterpretation of the prow of Samothrace, the projections on which (as in Anneat Shops, he calls out-heads, comparing a coin of Clos (Am. Ships fig. 23).——I have nothing to add to what I have said on this monoment. But if one can prove the outrigger from the texts, it lends much support to Dr. Assuman's view that what the monument shews is an outrigger.

pp. 142, 143. 'I am not concerned with evidence of class (2). But Follux 1, 87, shows by his mention of \$\text{Silvayor}\$, (eya, and sararrooms that he supposed the banks of rowers to be superposed!—The most that can be claimed for Pollux is, that he can be read to suit either theory, like many other pessages. But he does not refer to triremes only; he is speaking generally; and for three centuries the standard warship had been the quanquereme. As to there being three classes only, Mr. Torresps 'The men is the highest bank of the tesserakonters were called thranites, as was to be expected; but nothing whatever is known about the names for the men in the other banks in the tesserakonteres, or any other ships of higher can't than triremes. —One cannot disprove this; but we have no right to confine Pollux 1, 87 and 119 to triremes, and most recent writers have taken the simple view, that in all ships there were only three classes. It is a pity that the text of Polyix 26, 7, 10 is corrupt.

pp. 143. 144. The forms "responsepers and so forth" may not occur, but their equivalents do. Actius Armteidus, Rhodiaca p. 341 δικρότους καὶ πρικρότους καὶ εἰκ ἐπτὰ κοὶ ἐπτακικροτος. In the second century κ.D. δίκροτοι were probably biremus; and πρικρότους is used here for "triremes" because the writer has just used πριβρεις for "wurships." A professional rhetorician tike Aristeldes could not write πριβρεις ἐπβρχει ἐκδρ. ἔκδρεις κοὶ τριβρεις κοὶ εἰκ ἐπτῆρεις κοὶ ἐπτὰρεις, which is what he means; he has done

all he can to vary the sound, that is all.

pp. 144, 145. App. Mith. 12. There is nothing there to show that the term Staporov

pp. 144, 145, Arr. Anab. 6, 5, 2. 'The context shews that these disperse were hemiciful. By making the statement refer to triakontors, instead of hemiciful, the author has to shew that sara does not mean lower; and in does not seem to me to shew it.'—Once it is established from Appian that the hemiciful is not disperse, the meaning of

sairs follows with almost mathematical precision.

p. 146. Mr. Torr claims 3 appre and 3 is poror in Polinx 1, 82 as synonyms. It is not very important; but no doubt by the second emitury a.b. they were practically

Synonyme.

p. 150. App. b.c. 4, 85. "Some ships got into the whirlpool at Seylla, and the crows were upset, not being used to it. It seems forcing the translation to say that the men were knocked off their legs rather than off their scats. —I submit that ofter

emr wres Bediews cannot possibly refer to aitting.

p. 154. 'Ores. 6, 19 is quoted as if he were commuting Antony's dekerels with other dekerels, whereas he is contrasting them with the ships in Octavian's fleet which were all smaller than dekerels. — Very possibly this is right; but it does not affect the other evidence for the size of Antony's ships. They must have resembled galesses.

Note 80. 'See Anc. Ships p. 57, n. 131' which states that Copis in Agem. 1618 is some

bench at the stern.

p. 205. Floras II. 21 (iv. 11) uses remoran and remigum indifferently, because there was one mun to one our.

- p. 206. 'The Trajen column trireme cannot be ignored. It is not true that the ears " are just plastered on anyhow." They are clearly intended to be arranged to quincunces which is the natural development of the rigner. that you mention in the biremes.— But what the monument shows is not a quincunx at all, but . . ; and is not that 'anyhow'!
- p. 207. The prow of Samethrace. 'Your argument for the hepteres, which you develop at so much length, does not seem to have very much foundation. How can one assume that it has anything to do with Demetrius' victory at Salamis! And why should Nike be travelling about on one of Demetrius' ships rather than her own! Her ship was a familiar thing before that date; see Rosse Arch. 26 (1895) p. 161.'—Mr. Torr's article in the Rosse Arch, gives two figures of Nike, one on, and one hovering over, the prow of a ship; but there is nothing to suggest that the ship is Nike's own ship. Is there any other evidence! As to the Nike of Samothrace, Demetrium' well-known some shew that she was set up to commemorate some victory of his by sea, and we know of no other but Salamis; had there been any other of importance, Plutarch would hardly have passed it over.

Note 94. "I conceive that these lembs were narrow amough to have the oars scalled in pairs."—No doubt biremis con mean a scalling boat; but had Philip two complete fleets of lembs 1. Or did he put scalling boats into line against the Rhodian

quinqueremes at Chio+ !

p. 200. The Dipylon ship J.H.S. 1899, Pl. 8. • I doubt if it is a bireme. I am in favour of its being a ship of a single bank with περίεεφ cars rowed from the κατάστρωμα.

——1 by no means exclude the idea that (say) a state ship might have been thus rowed; I believe them is a case at Venice, and possibly Antigmos' τριάρμενος was something of the kind. But in the case of this Dipylon ship the explanation does

not seem to meet any of the three difficulties given in n. 96.

p. 200. As to biremes being unknown to every writer before Clesser. Damastes (apad Plin, vii 26 (57), 207) attributes the invention of biremes to the Erythracane; and Damastes was a contemporary of Herodotus. Also in the untalogue of the ships II, 2, 509, 510, there is a pretty clear allusion to biremes.—The allusion in the Had is merely to ships with 120 men each. As to Pliny. It is not a case of Damastes apad Plinium, but of an assertion of Pliny's own, even supposing Damastes of Signum to be meant; and Pliny's list is quite untrustworthy. Biremem Damastes Erythracos feeisse; triremem Thurydides Aminoclear Corinthium (our Thurydides says nothing of the sort, ass 1, 13, 2; it is Pliny's own interpretation of him; quinquerement Mussigiton Salaminics (directly contradicted by the circumstantial account in Diodorus); ab so (hexeres) ad decoursement Mussigiton Alexandrum Magnum (almost certainly untrue, see note 51). In the face of this kind of thing, Pliny's statement us to Damastes is of very slight value. No doubt a bireme was experimented with before a triume; my point is that it never came into use at all in early times, while Mr. Torr thinks it did and was driven out by the trireme. Then why no reference to it!

p. 209. 'H Sennacherib's ships are not birenes, what are they!'——I do not know. But if the pentekontor was really not invented till 704 n.c., they cannot be long ships at all. I think they are round ships (see figs. 10 and 11 in Anc. 85ips) beginning.

to be miapted for fighting; two lave rams, one has none.

Mr. Torr does not comment on the difficulty I have felt and expressed over

the bireme question generally.

\*Lenormant relief. I have no doubt at all about the accuracy of what you call
the older view. "The raised image Λ Λ cannot of course be portholes." They
presumably are portholes with ἀσχώρατα. "And Y and Z are part of the hull."
Similar reasoning would make X part of the hull; which it coraninly is not. Why
should not Y and Z cross E E (the lower waling piece) just as much as X crosses
D D and E E (the two waling pieces) and F F (the gunwale)! If the relief disproves

one, it disproves the other.

'I presume you admit that X are ours rowed against tholes on the gunwale F F, and that D D and K E are the waling pieces. Then one gets the ports (with downpara) of the third bank just where one expects to find them, namely between the two waling pieces and vertically below the tholes of the first bank. One would expect to find the ports of the second bank between the upper waling piece and the gunwale. The difficulty of course is that the ours of the second bank (Y) seem to go right up to the lower side of the gunwale. Now there is a double set of supports under the gunwale, one running down to the upper waling piece and the other running down to the lower waling piece. One explanation is that the sculptor was rather careless, and continued the ears (Y) as far as the gunwale in the same way as these supports. Another explanation is that these supports imply that the gunwale projected a little way over the side of the ship, and thus hid the portholes.

'I think my diagram, D. and S., fig. 5275, belps one to understand this relief.'

I submit that this is reconstruction, not explanation; precisely as fig. 5275 in Dar. Sagl is. The monument shows that X crosses D.D. E.E., and P.F., and does not show that Y and Z cross E.E., that is the point. One cannot reconstruct a relief on the footing that it has to show three banks, and then use it as evidence that there were three banks.

Note 107, 'Polyaen, 5, 22, 2 is not conclusive that the pare could be got out quickly, Diotimes would begin getting his ears out as soon as the enemy saw his hulls, say live miles off. The stratagem would answer only so long as his ships were hill down. But the passage seems to me to shew that the cars could not have been passed in from the outside, as you suggest. Pollux, I think, is wrong; the thing that he mentions was called room's or roomerap and security, to dassen. -Diotimos must have let the enemy come close up, or he could have got back to harbour; but I have omitted the words 'is conclusive' from the note. But the practical difficulty of getting out the ours at all, whether from inside or otherwise, in a trireme arranged on the accepted theory is to my mind probabilities. Whether Pollun here be right or wrong (I think he is right), there is no real evidence for the current view of the forenes. Its use was to lessen friction.

n. 107. 'The latter part of this note seems to rest on a misconception. The portholes did not serve as rowlocks. The oars were rowed against tholes. - By all means, My difficulty, i.e. the strain on the ship's timbers, remains (she was very lightly built); and I should like an expert opinion. I am thinking of the way a racing

eight strains in spite of every precaution.

p. 215. Herod 7, 36. Probably the bridge had longer supports where the supports rested on pentekontors than where they rested on triremes. - Perhaps. The bridge was laid on great makes. No doubt it may be possible to get round the question of height as regards a trireme; it is with the quinquersum that it becomes so formidable.

p. 215. Galen. Mr. Torr is inclined to think that he is referring to one fier of the trireme's oars only and also to the aspect of the oars inside the ship. The word airia I think forbide this, as I have shewn (n. 114). It also assumes that there were

tiers, which is rather the point at issue.

p. 216. As to Aristotle. I do not reproduce Mr. Torr's criticism because (given his premisses) everyone will agree. If there was no such thing as an outrigger, and if Galon is not using Aristotle, (these are his premisses), then process are the men amid-ships, and Aristotle is against my view under A. But if either of these premisses be false, my argument holds. Anyhow Mr. Torr does not claim that Aristotle supports the theory of superposed banks, for he says Aristotle is stating a general proposition, i.e. he refers to any tier of cars (it does not matter whether

the ship had one or more).'
p. 217. Polyaen, 3, 11, 7 λφ' τ̄σα. 'I take this to mean that each pair of rowers (port and starboard) sat on the same pince of timber, instead of sitting on separate seats. Cf. Lee, Tactica 8 and Ap. Rhod. 1, 395, 396 quoted in Am. Ships, note- 46 and -Neither of these passages refers to triremes, and I doubt if the above

explains in iva; but I have said that I cannot press the passage,

Finally, Mr. Forr considers it humrdons to say that something which existed in the mediaeval type existed in the ancient type unless one can show that it existed also in the intermediate or Byzuntias type. But I claim neither continuity of tradition nor identity; only analogy,

#### Mr. Torr sums up as follows :--

'As to your propositions.

A. I do not see that you have any evidence at all for the assertion, "thranites astern, zagites amidships, thalamites in the bows." Your evidence is only that the thranites were furthest astern. And there is quite another explanation of that, namely, that the thrunite bank, which had sixty-two ours, reached further aft than the augits and thalamite banks, which had only fifty-four.

B. To establish this trunslation of the terms reignores, etc., you would have to show that disperse and hamalia are mutually exclusive in App. Mith, 92, and that seres does not

mean lower in Arr. Anab. vi. 5, 2.

C. Of course, there is a danger in generalizing from a limited number of instances; but, I think, people were aware of that already.

D. I cannot find anything in your paper to support D (1), and hardly anything in support of D (2). Of course, D (2) is really a question for a naval architect; and I fancy be would decline to express an opinion without more data than can be given him.

E. This is supposed to be dealt with in Part II., but I do not see that you have really tackled the question.

W. W. TARK.

#### ON THE DATING OF THE FAYUM PORTRAITS.

#### [PLATE XIII.]

When the nummy-portraits from Rubayyat and Hawara were first brought to Europe, amid the general interest which they aroused there was a wide diversity of opinion as to their age. Georg Ebers, who had an enthusiastic admiration for them, tried hard to prove that the series began in the second century 8.c. and that the best specimens belonged to the Ptolemaic period. Th. Schreiber may be mentioned as another distinguished authority who took the same view. On the other hand many archaeologists maintained that the portraits were all Roman work, dating for the most part from the second century A.D. Mr. Petrie in particular brought forward definite evidence to show that they range from about 130 A.D. to about 250 A.D., and he also divided them into successive groups. There is still much uncertainty on the subject, as I have had occasion to notice of late. To those who are in doubt about it the following brief paper, which is based on a study of the Cairo collection, may be of some little help. I regret that I do not know much of the material in Europe at first hand.

Graceo-Egyptian mummies are sometimes furnished with pointed portraits and sometimes with modelled masks made of various materials, canvas, carronnage, plaster, and wood. These are the two main kinds of mummy-decoration, though each may be subdivided into various classes. The realistic masks, with some exceptions, are not difficult to date. Many of them belong to the first century a.D.; they continue to be very common right through the second; some of the best and most naturalistic were made in the first half of the third century; and the custom did not entirely die out till

<sup>1</sup> Ebern, Hellenistische Portrate une dem Position.

<sup>\*</sup> Bandeker's Egypt: introductory chapter on Alexandrian art.

<sup>\*</sup> Hamora, Biahom, and Arringe,

<sup>\*</sup> The numbers and plates cited below are those of the entalogue, which will shortly be published.

<sup>&</sup>lt;sup>5</sup> For good individual sperimens see Music H.S.—VOL, XXV.

Egyptica, vol. i. Pl. XXXII.; Recast! de Principale, vol. 17, Pl. III.; Lady Mean Collection, Pla. XXVII. and XXVII.a.; Burlington Fine Arts Ech., 1895, Pl. XI.; Annales de March Gaumet axvi., Pls. XXI.—XXIV.; Arch. Ast 1898, p. 55 ff. (where they are correctly dated). The Graf collection is well known. There is also a fine series in Cairs.

lone afterwards. It has sometimes been thought that the masks in question precede the panel portraits as a class. The opposite view has also been out forward, that is to say, that the masks are later than the portraits." I may as well say in advance that neither of these two theories is tenable. It is quite certain that the two series, masks and panels, are to a large extent contemporary. In some places the one sort of decoration was fashionable, in other places the other. The panel portraits are particularly common in the Favour though they are also found elsewhere. Most of the masks on the other hand come from the cometeries farther south." Several sites have yielded both masks and portraits, e.g. Antinoopolis. The two types flourished in different centres, but not necessarily at different periods.

The external evidence for determining the dates of the portraits is scanty. They have not been found in any cemetery which is purely Prolemaic. Those from Antinoopolis are presumably not earlier than Hadrian as it was he who founded the Greek settlement there. At Hibeh Messes Grenfell and Hunt found a papyrus of the reign of Trajan and the mummy of a woman with panel portrait in two contiguous graves.10 An inscription of the time of Marcus Aurelius is said to have come from the same find as two Hawara portraits which are now in Cairo," The tombstone of Aline in Berlin dates her death to the year 10 (of some Emperor's reign without doubt). The mummy-tickets, some of which come from the same cemeteries as the portraits, belong for the most part to the second and third centuries though they also reach back to the first." It is only very rurely, however, that the tickets and the paintings have been found together.14 and we have no right to assume that the range of the one series is coincident with that of the other.12 The inscriptions which one finds on the mummies themselves, with the characteristic EYYYXI, point decidedly to the Roman period.16 Certain portraits in the Louvre used to be identified with members of the family of Pollius Soter, who was archon at Thebes in the time of

Rionell de Terrane, vol. 17, p. 111 (Birsling).

\* Budge, Ludy Meno Collection, p. 355; Unide

to 1st and 2nd Eg. Rooms, p. 79.

\* In Asypptisca, p. 104, G. Schmidt says that all the plaster masks come from Tman, but in mality Tunals is only one of the various sites where they have been found.

Eg. Ecol. Found Report, 1902-8, p. 11. n Guide to Caire Museum, 1993, pp. 347-348. The inscription was seen by M. Greland but seas not acquired by the Mussum. On p. 195 of the same Guide it is said by mistake that some of the painted portraits were found at Dimeh with an inscription of the reign of Claudius; what was really found with it was a group of portrait-statusties (Quide, p. 259).

11 As is acknowledged by Eben, p. 10. is it is sometimes said that none is known to be earlier than the 2nd soutury (Zeitachriff) far deg. Sprache, xxxii. p. 36). But Bouriant. mentions one from Soling dated to the 1st year

of Vesposius (RomeG, 1889, p. 143).

ti At Akhmin C. Schmitt found a graye containing both tickets and portraits, the latter of inferior style, Zeilschrift, xxxiv. pp. 80-81. Sec also Arch. Ass., 1889, p. 2.

" I do not mean that us a matter of last they are not for the most part contemporary.

to goad are in the ordinary word of farewell on the funeral ineriptions of Roman Egypt, though the older xuise is also found.

<sup>&</sup>quot; For an azample of the latest style see Annules du Musée Ouimel, vol. xxx. 3, p. 152. An interesting detail may be pointed out on these late heads. The shading on the cheeks and chin is readered by large discs of a darker and than the rest of the face -exactly the same method as was used by the sucient Egyptian artists in the tomb of the wife of Ramses II

Hadrian, but Wilcken has rightly cast doubt on the identification. On the whole, however, the external evidence shows that at least some of the portraits date from the second century A.D., and this has been generally admitted even by those who claim that the best of them are Ptolemaic.

Mr. Petrie's account of the portraits is the one which is best worth examining for our present purpose. The date which he proposes for the beginning of the series is 130 A.D. It is got at in this way. The first group of mummies at Hawara in which Greek influence preponderates consists of those with gilded bust-pieces made of stuccoed canvas and cartonmage. They may be divided into two classes,-(1) those in which the front of the head is rendered naturalistically while the bust is decorated with the conventional Egyptian subjects; (2) those which have the bust modelled in the Greek style and the arms represented.18 The first type is assumed to be earlier than the second, which shows an advance in realism and which is mainly used for women. Now one of the earlier class bears the name ΤΙΤΟΣ ΦΛΑΥΓΙΟΣ ΔΗΜΗΤΡΙΟΣ (Titus Flavius Demetrius) which according to Petrie proves that he was born later than the accession of Vespasian. He therefore assigns the armless basts to about 50-120 A.D. and the basts with arms to 100-130 A.D., admitting that there may be some overlapping between the two groups as most specimens of the second type belong to women. After a few experiments these later busts are succeeded by the painted portraits, examples of both being found in the same tomb. Thus the beginning of the portraits may be placed at about 130 a.D., and they may be regarded as signs of a revival of Hellenistic art caused by the visit of Hadrian 10

This classification is neat and definite, but I do not think it is correct. One of the gilded busts in Cairo, belonging to a woman called Sambathion. In has the bair dressed in a peculiar fashion which is characteristic of the Claudian age and of it only. The other busts with arms have so many points in common with this one that they cannot be separated by any long interval, nor is there any reason for thinking that the mask of Sambathion is the earliest of the series. Mr. Petrie's date, II0-I30 A.D., is far too late. As for Titus Flavius Demetrius, he was in all probability a Greek who had acquired the citizenship under Vespasian, and he may have died quite early in the Flavian age. It is a reasonable inference too (v. supras) that the armless type of bust was used much longer for men than for women. Looking at the plaster busts from other sites one finds the men represented with conventional wig-ends hanging over their shoulders

Hatren, Jon 1, p. 6.

<sup>&</sup>lt;sup>16</sup> Examples of both types reproduced in Hamara, Pl. IX.

This idea is repented by Milms, Hist. of Eg. p. 56, and C. Schmidt, Toppptiass, p. 105. See also Archaeologic liv. p. 363.

<sup>&</sup>quot; Found by H. Brugsch in 1892. A lead send

from the same musing is published in Milne, Grk. June, p. 182, No. 33017.

<sup>&</sup>lt;sup>31</sup> Waved in each side with a bunch of curre above each temple and a fringe of tiny round ringless must the foreheat. See Bernoulli's remarks on this point, Run. Iconographic, vol. ii. 2, p. 180.

to at least the middle of the second century A.D., while the women's hair and drapery are modelled realistically. A comparison of these plaster portraits from Middle Egypt, of which there is now such a fine series, strongly confirms the conclusion that the gilded Hawara busts belong to the first century. Thus, if we accept Petric's view that the paintings succeed the busts (at Hawara) in a chronological sequence, it follows that many of the former may or rather must be much earlier than the time of Hadrian. And from the fact that specimens of both have in more than one case been found in the same grave. It appears very probable that the two series overlapped to some extent.

It is clear then that the panel portraits were in common use in the second century, but the view that the series does not begin till the reign of Hadrian does not rest on sound evidence. For further information we must turn to the paintings themselves. It was argued long ago that the portraits of bearded men could not be earlier than Hadrian as it was not until his time that beards came into fashion.34 I think that this view contains a kernel of truth, though the argument is sometimes stated too unreservedly. It is not true that from the time of Alexander to that of Hadrian the Greeks in Egypt never wore beards.25 On Ptolemaic tombstones the men are often bearded. One or two portrait statues which are generally thought to be much earlier than Hadrian have short beards,20 and on a few of the first century masks a slight growth of hair is indicated on the face, T But there are many of the male heads about which there can be no question. They not only are bearded, but they have the curly luxuriant hair which is so distinctly characteristic of the Antonine period:28 it is impossible to suppose them to be earlier. In contrast with these we find a group of men's heads with clean-shaven faces and rather short smooth bair like Roman portraits before the time of Hadrian.29 Some may of course have been painted in his reign, but on the whole (as we have given up the theory that the series begins about 130 a.b.) we may call these the pre-Hadrianic class; I shall not attempt here to distinguish between them. Some of the curly-headed group may be as late as the reign of Septimius Severus. One in particular (Pl. XIII 2), which has the lan above the forehead divided into three conspicuous looks just like the Imperial portraits, is certainly to be assigned to this period. There are

<sup>#</sup> I have not seen a sufficient number of them to venture an epinion as to how long a period they over.

<sup>&</sup>quot; Ebers, p. 0 ; Petrie, Haustra, p. 17.

<sup>&</sup>quot;Heydemann, Saturepolerical der Kol. Speka Gen der Wissensch, 1888, p. 308. I do not know this article except at second band, from the references to it in ather written.

For the Ptoleman tombetones see Atle Mill. xxvi. p. 250 ff.

<sup>&</sup>lt;sup>64</sup> E.g. Recoult, vol. 18, p. 140 (Blassing).
See also the Ptolemais anthropoid soffin in Fagura Tours, Pl. XI, (b), 19.

<sup>#</sup> Hasters, p. 16; also on the Middle Egypt masks, s.g. Cairo, No. 33162, Pl. XXIII.: in some such eness, however, what is represented is probably the stubbly citie of a man who did not share every day.

<sup>\*\*</sup> Cairo, No. 33252, Pl. XL, is an excellent example. The same type occurs on Antonino grave-rulers, c. Milne, Grb. June 19, VIII. No. 9250. It is different from the affectedly disordered fair on certain Hallenistic sofuportraits.

<sup>&</sup>lt;sup>38</sup> E.g. Hosenes, Pl. X. 10; Caire, No. 38255; Pl. XLL (=No. 1 on Pl. XHL).

Caire, No. 33261, Pl. XLII.

some other male heads which are later still. One or two I think may be dated to the age of Caracalla, while on others we find the close-cropped hair and beard which is a characteristic trait of the succeeding period: A certain example in Cairo, No. 33250, might almost pass for a portrait of Severus Alexander. Evidently then the practice of decorating mummies with portraits painted on wood lasted till well on in the third century.

Something more definite about the earlier part of the series may be learned from the details of the women's portraits. Ebers asks how it is, if the male heads reflect the current Imperial fashion, that the female heads are not similarly influenced. The question is intended as an argument against the view that the portraits of hearded men are later than Trajan, but the assumption which it contains is not well grounded. In many cases the women's portraits follow the same fashions as the Roman court. The tendency is very strikingly exemplified by the modelled masks; here we have a complete series from about the middle of the first century to the beginning of the third. But there are also good instances among the paintings. In particular there is a group of portraits characterized by a thick arch of small curls over the forehead while the back hair is coiled up behind, usually rather high up, and transfixed by a large pin." It is exactly the arrangement which one finds on Roman portraits of the Flavian age: c/, for instance Bernoulli, Rom. Icon. vol. ii, 2, Pls. XIII. if and Münzt. ii, 13. There is no other period to which this group of paintings can be assigned. The same peculiar coiffure is likewise found on several of the plaster masks together with other indications of a comparatively early date." These portraits then take us back to the last quarter of the first century. Nor, I think, are they the earliest group of all. There are a few others which have the hair dressed in the Claudian fashion: that is to say, it is parted in the middle, waved to each side and more or less curly round the forehead. Pl. XIII. 4 (=Cairo No. 33265) is an example of this type. The Roman fashious of the second century are also represented among the painted portraits. For instance the high elaborate coiffure of Cairo No. 33222 shows that it was painted in the period of Trajan or Hadrian, while Graf No. 15 is distinctly of the later half of the same century and is to be compared with the portraits of Lucilla and Crispina. There are several other styles of hair-dressing on the painted heads for which one can find more or less close parallels among Roman portraits of the first and second centuries, but the above examples are sufficient for our present purpose.

Another thing which is of some use for determining the age of the portraits is the women's jewellery. Mr. Petric has used this criterion. He notes in particular that the three main types of earnings which one finds on

H.g. Graf No. 8; Howeve, Pl. X.
No. 12; Caire 33223 and 33237 [=PL XIII. 3). Ebers (p. 64) compares the confures on certain old Egyptian and Cypriote bends, but neglects the Roman analogy which is much

more obvious and striking.

## E.g. Cairy No. 38181, PL XXV. I bave seen others in the dealers' shops.

<sup>&</sup>quot; Gunts 1903, p. 255. There are several parallels among the plaster masks.

the portraits are (1) the ball-earring Fig. 1, a, b, (2) the hoop-earring Fig. 1, c. (3) the bar-earring Fig. 1, d-f. He assumes these types to be roughly consecutive, assigning (1) to the first half of the second century, (2) to the second half, and (3) to the first half of the third. Thus the fine portrait, Pl. XIII. 3, which we have seen good reason for placing in the Flavian period, would according to this classification belong to the latest group. But Mr. Petrie's division is far too precise. Now that we have so many well-dated masks it is easier to follow the history of the jewellery. Judging then from the masks alone we find that the ball-earring was a common type in the first century but becomes much less popular in the second. The hoop-earrings were also very fashionable during at least a great part of the first century and continue to be quite common till past the middle of the second. The third type is so much rarer than the other two on the masks which I have seen that I do not venture to draw any definite conclusion about the range of its popularity. But the fact that carrings of this form have been found at Pompen st shows that it also was known in the first



FIG. 1:- FORMS OF EARBING.

century A.D. It is only natural then that it should appear on several of the portraits which we assigned to the Flavian age. All three types in fact are much earlier than Petrie supposes and they do not follow each other with mechanical regularity. Nevertheless as a secondary means of dating and classifying the portraits the jewellery is of great value if used with caution 35; and there is now plenty of material for comparative study,—carrings, necklaces, bracelets, and diadems.

The conclusion to which the foregoing arguments lead is that the portraits range from the Claudian age to the second quarter of the third century. There may be some specimens both earlier and later than those which I have discussed above, though I doubt if the series will be found to extend beyond these limits. It is noteworthy that the modelled masks of predominantly Greek style occupy much the same period.<sup>36</sup> In the case of the

<sup>34</sup> See Monaco, Mass National, Pl. CXI. Schraiber, Alex. Toventik, p. 305. The general type, a cross-bar with three pendints, is of course quite early.

<sup>&</sup>lt;sup>38</sup> An article by Folnesics on this subject, which I have not had an opportunity of reading, is mentioned by Wickhoff, Roman Act, p. 160.

Followins, as I heart from this reference has shown that the gold ornaments of the women belong to the age of Soptimius Severus. I pressum he does not mean all of them.

<sup>&</sup>lt;sup>36</sup> I do not refer to ügures like Zeitschrift für Arg. Spruche, vol. 41, p. 10, Fig. 8, nor de I include the late Deir el-Bahari type.

masks there was a gradual change from the Egyptian to the Greek style, and even in the second century many of the faces bear signs of their Egyptian descent. The later ones are more free and naturalistic than the earlier groups.21 But the paintings from the first show an entire freedom from Egyptian influence, even when the rest of the figure is covered with the usual mythological scenes. The masks in fact derive from Egyptian, the panels from Greek art. Not long after the naturalistic style had been adopted in the modelling of the busts, the idea arose, probably in the Fayum, of introducing a painted portrait in place of the mask, Some of the early portraits, perhaps the earliest of all, were on cloth, 88 and sometimes too the rest of the figure was painted on the outer wrapping of the minimy. 80 This particular style of decoration survived into Byzantine times.40 But the panel portraits soon came into regular use, to the exclusion in some places of all other forms of mummy-decoration. While the early masks are tentative essays in an alien art, the style of the paintings from the very beginning is free and finished and entirely Greek. These rapidly painted panels, no doubt for the most part mere commissions from the undertaker," are products of a highly developed art, put to an incongruous use. We may be sure that the style of which they furnish so many fine examples was no sudden innovation in Egypt. Wickhoff, indeed, who dates them to the age of Septimins Severus and argues that the whole group falls within one short period, claims them as illustrations of the reflex action of Roman art on the Greek East. But the series can be traced back to a time when this so-called Roman art was only coming into existence in Rome itself. It is not in Rome but in Hellenized Egypt that the origin of the style is to be looked for. Ebers was essentially right in calling the portraits Hellenistic.

Ebers, however, did not mean merely that they were to be classed as Hellenistic from the aesthetic point of view. He held that the series actually began in the second century B.C., that the best of them were painted in the Ptolemaic period, and though he admits that some belong to the second century after Christ, he speaks of these as inferior works. But the reasons which he gives for his opinion are singularly feeble. He says in general terms that the style is too good and too realistic to be Roman,—which is merely prejudice. Wickhoff on the other hand, though mistaken about their date, compares

Similarly some of the most Greek in style
of the grave-reliefs from the Delta consecrits
belong to the latter half of the second century;
the order of development is not described
correctly in my catalogue of the Cairo sculpture, p. ziv.

<sup>\*</sup> Hamara, p. 17 | Caire Nos. 33214, 33268 ;

Berlin catalogue, p. 351.

Even when the head is painted on an inverted panel, e.g. Cairo No. 33217.

<sup>\*</sup> E.g. Cairo No. 33282, Pl. XLVIII. For other examples from various periods ass Hilten

Prime Catalogue, No. 49, Annales du Mus. Guimet xxx. 2, Pl. I.

An interesting panel found by Grenfell and Hunt in the Fayum has normorands on the back concerning the features of the person to be portrayed (somewhere in the Cairo Museum; Journal eliciteic, No. 34253). In many mass the paintings are no doubt far from being faithful likenesses, though they do not degenerate into conventional types as the masks tend to do.

<sup>&</sup>quot; Amount Art, to 160,

them very happily with Roman portraits of the first century A.D. In the next place it is proved by ancient records, as Ebers says, that the Greeks in Egypt had adopted the custom of mummifying their dead by the second century B.C. But that by itself is no clue to the age of the portraits. All the evidence goes to show that Greek mummies were at first decorated entirely in the Egyptian manner.42 For instance there is nothing Greek about the maining of Theodorion in Cairo except the name and the inscription on the coffin.44 Again, there are among the portraits certain heads with what is apparently a hanging tuft of hair on the right side. This has been identified perhaps rightly, with the Egyptian side-lock. There would be nothing remarkable about it if the persons represented were children. But Ebers claims that one or two of them are grown-up men,40 and the only adults who wear the side-lock on Egyptian monuments are the princes of the royal family. So he elaborates a theory that these portraits may represent young men of good family who either were sons of the king's συγγευείς or had been pages at the Alexandrian court, Basilieis walker, and who may therefore have been permitted to wear the side-lock to a comparatively advanced age. This is offered as a serious argument that the portmits are Ptolemaic! Lastly, Ebers points to certain portraits of young men wearing mantles of hyacinth-coloured purple and jewelled bands which are supposed to be sword-belts and which in three cases out of four are hung over the right shoulder. He argues that these paintings must be Ptolemaic, for in Roman times nobody except the Emperor was allowed to wear purple of this particular shade and the Roman custom, unlike the Greek, was to wear the sword belt over the left shoulder. The latter statement is an error. On Roman monuments one often sees the belt fastened over the right shoulder and sometimes over the left. "There was certainly no fixed custom throughout the Empire. As regards the other point, the women's dresses on the panel portraits are usually of purple, varying from lilae to dark violet, and in some cases the men wear a purple cloak. If anyone will take the trouble to pick out the portraits (and also the plaster busts) to on which the drapery is of the dark hyacinthine shade, he will not discover a single one with any distinctively Ptolemaic trait, but he will find several which it is

<sup>\*</sup> For information about Prolimnic counteries in the Fayum see especially Granfell, Hunt, Hogarth, Fayum Towns, and E.C.H. xxv. p. 380 ff.

<sup>4</sup> Guide 1903, p. 361.

<sup>&</sup>quot;Graf. Nos. 7 and oc. The latter he says represents a man at least 20 years old. But there as a pertrait in Came of exactly the same type on a well-preserved minimay, the length of which including the arappings, is little more than 1 metre (No. 33227, FL XXXV). No. 7 too is clearly not an adult. All the heads that I know of with this burnels at the sade are samply portraits of children. In one

case a girl wears it on the left side (Cairo, No. 53216).

Nos. 4, 5, 6, 22 No. 5 warrs the belt over the left shoulder; see also Burlington Fine Arts Echibition 1895, PL 9.

<sup>&</sup>quot; See for instance the article believe in Daremlurg and Saglio.

<sup>\*\*</sup> Purple drapery is much sures on the plaster husts. Probably it was a convention among the painters like the grey background. The differences in the depth of the purple are largely the effect of different light and shade.

<sup>\*\*</sup> E.p. Cairo No. 33155.

impossible to attribute to any period except the first and second centuries a.p.<sup>50</sup> That being so, it is needless to inquire further whether this really was the Imperial purple and what exactly was the scope of the law. Perhaps the other archaeologists who share the opinion of Ebers rely on some better arguments which have not come to my knowledge, but at present the question seems to me to stand thus. The external evidence, though not so conclusive as one would like, gives no support to the theory that the best portraits are Ptolemaic, but is altogether against it. Again, the internal details of the portraits themselves, while they contain nothing that is distinctively Ptolemaic, prove that a large part of the series (including much of the best work) is certainly of the Roman age. And if we look closely into those specimens which in themselves seem to hear no decisive indication of date, we find so many points of connexion with the undoubtedly Roman ones, they fall so naturally into place among the others, that we are forced to pronounce the whole series to be Roman.

C. C. EDGAR.

Witte.

A This is true even of the four portraits selected by Rhers. No. 6 for instance is clearly an Autonius work

#### THE APOXYOMENOS OF LYSIPPUS.

Is the Hellenie Journal for 1903, while publishing some heads of Apollo, I took occasion to express my doubts as to the expediency of hereafter taking the Apoxyomenos as the norm of the works of Lysippus. These views, however, were not expressed in any detail, and occurring at the end of a paper devoted to other matters, have not attracted much attention from archaeologists. The subject is of great importance, since if my contention be justified, much of the history of Greek scalpture in the fourth century will have to be reconsidered. Being still convinced of the justice of the view which I took two years ago, I feel bound to bring it forward in more detail and with a fuller statement of reasons.

Our knowledge of many of the sculptors of the fourth century, Praxiteles, Scopas, Bryaxis, Timotheus, and others, has been enormously enlarged during the last thirty years through our discovery of works proved by documentary evidence to have been either actually executed by them, or at least made under their direction. But in the case of Lysippus no such discovery was made until the very important identification of the Agias at Delphi as a copy of a statue by this master.

Hitherto we had been content to take the Apoxyomenes as the best indication of Lysippic style; and apparently few archaeologists realized how slender was the evidence on which its assignment to Lysippus was based, That assignment took place many years ago, when archaeological method was lax; and it has not been subjected to sufficiently searching criticism. The only documentary evidence for it is to be found in the words of Pliny. Pfiny mentions that one of the best known statues of Lysippus was an athletescraping himself with a strigil, destringens so. And he tells us how Lysippurintroduced into sculpture a new canon of proportions, capita minora faciendo quam antiqui, corpora graciliora siccioraque, per quae proceritas signorum major videretur. The first of these statements does not greatly help us, as the motive of the strigil is rather common in Greek sculpture. It is the second statement which has impressed archaeologists. And certainly, anyone comparing the Apoxyomenos with the athletes of Polycleitus will see that in it the head is smaller, the body slighter and more sinewy, the apparent height greater. But these features, though especially belonging to Lysippus and his school, do not appertain to them exclusively. For example, the fighting warriors of the Mausoleum frieze possess these characteristics in as

marked a degree as the Apoxyomenos. And no one attributes the Mausoleum frieze to Lysippus. It would seem then desirable not to treat the attribution of the Apoxyomenos to Lysippus as a settled question, but to consider it afresh, and in a broader light. So Dr. Klein \*\* writes, 'a more thorough-going treatment of Lysippus in a monograph may greatly advantage us; and the time for it seems to have now arrived.'

#### 1.—The Agias and the Aporyumenos.

The opportunity for reconsideration is offered us by the discovery at Delphi of the group dedicated by Daochos, one figure of which is now known to be a copy of a bronze statue by Lysippus representing Agias or Hagias, a noted athlete of the fifth century, and so a more or less ideal athletic type of that master. It is quite certain that it will be necessary in future to take the Agias, and probably other statues of the group, into account in speaking of the work of Lysippus. And here we come to a difficulty. For until M. Homolle and his colleagues have fully published and commented upon the whole series of these statues we cannot treat of them in detail. We can but break ground for discussion.<sup>2</sup>

I must, however, say a few words as to the claim of the Agias to be thoroughly Lysippic. I need not repeat the inscriptional evidence which shows that it is probably a contemporary version in marble of a bronze set up in Thessaly. That this replica was made by the master bimself is most unlikely; he was pre-eminently a worker in bronze, not in marble. But there would be little point in setting up at Delphi'a duplicate of the Thessalian group, unless it were a close imitation of it; and at all events it is a work of the time and the school of Lysippus. It has claims to represent his style, which, if not conclusive, are far more weighty than those belonging to any other extant figure.

M. Homolle sums up the case for regarding the statue at Delphi as a replica of the bronze of Pharsalus as follows. Le fait (the omission of proper support to the marble figure) marque avec quel respect du modèle la copie avait dû être faite, et qu'on avait cherché à en faire une reproduction fidèle, à en garder l'aspect, le rythme, et le style, au prix même de difficultés, voire d'une imprudence technique. Il prouve que la copie mérite notre confiance, qu'elle a une valeur documentaire, qu'elle pent, dans la mesure où cela est possible, tenir lieu de l'original. This statement is, perhaps, a little too positive; but yet we are obliged to attribute high documentary value to the Agias statue.

Casts of the Agias and of the Apoxyomenos have stood side by side in the Ashmo'ean gallery of casts for years. I have frequently studied

<sup>·</sup> Grackichte des grant, Kunst, ii. 273.

There is a preliminary discussion of the group in the B.C.H. vol. 28, with Plates. The Agess is repeated in this Journal, 23, 129. The

forms Agias and Haguas seem equally correct.

See R.C.H. 23, p. 422: Prenner, Emdelphisches Weikgeschenk, 1990.

<sup>\*</sup> he p. 444,

them, alone and in company with pupils and colleagues. And I have reached the decided opinion that if the Agias is at all trustworthy as a copy of a Lysippic bronze, then the Apoxyonemos cannot, as it stands, be Lysippic. When placed side by side, the two figures not only differ in work and in style, but they differ so markedly that they must belong to different authors and to different periods. This view, however, is one to which archaeologists at present are not inclined, and I must set it forth with proper grounds and reasons.

There was one event in the history of Greek sculpture which overshadows in importance all others. This event is the application to sculpture of the results of anatomical study. Prof Lange has some excellent observations on this subject.6 Before the Hellenistic age, the Greeks knew the maked body, as one knows one's native tongue. But no one had a clear conception of the causes of what took place; men knew not what it was that took place beneath the skin, and produced the undulations of surface. Modern science will not by any means allow that such an empirical knowledge of surface deserves the name of science. But what in the view of science is a low degree of development, must from the artistic point of view be regarded as not merely adequate, but in fact as far better and more successful than knowledge technically scientific. Lange proceeds to point out that it was first at the Museum of Alexandria, about B.C. 300, that human anatomy was seriously studied by such masters as Herophilus and Erasistratus. It was said in later times of Herophilus that he dissected 600 corpses. A historian of anatomy writes 'The special branch of anatomy which at this period was founded, and advanced with rapid steps, was myology (study of muscle), which had hitherto been unknown: it was now cultivated to such a degree that most of the muscles were known to the physicians of the school of Alexandria.

This growing knowledge of anatomy soon reacted on the art of sculpture, with the final results which are obvious to us in such works us the Fighter of Agasias in the Louvre, or the Laccoon. These works are far indeed from the simplicity of the early Greek sculptor, who was content to see what offered itself to the eye. They are learned works, of great technical perfection, which have almost the appearance of anatomical models. The elastic skin no longer hides the working of the muscles beneath, but they are exhibited in all their connexions and ramifications in a state of tension.

The introduction of the study of anatomy, then, is the great dividing event in the history of ancient sculpture. Of course many works made after e.c. 300 are not especially anatomical, proceeding on earlier lines. But it

statues side by side.

Dr. Ameling in his Cotalogue of the Polician Scalpton (p. 87), says that the Again figure 'offers the closest analogies in style to the Apaxyonomous' I cannot think that so good a judge would have made so extraordinary a statement if he had seen casts of the two

Die measchliche Gentult in der Geschichte der Kunst, il. Theil, p. 39.

Lanth, History in L'Amitonie, 1815, p. 118.

may fairly be said to be impossible that a work of the period before 300 should show clear traces of anatomical study. If so, no statue of this tendency can be a faithful copy of a work of Lysippus.

If, then, we consider the two statues which have most direct claim to be Lysippic, the Agias and the Apoxyomenos, we shall at once see that the



FIG. I .- FOOT OF APOXYOMENOS.

Agias is on the earlier side of this great dividing line, and the Apoxyomenos on the later side. The conclusion seems to me obvious and inevitable, that the Agias and not the Apoxyomenos is a trustworthy guide to Lysippic style.



Più. 2.-Poor or Antea.

Ex pede Herculem. Let anyone carefully compare the foot of the Apoxyomenos (Fig. 1)\* with the feet of statues belonging in origin to the fourth century, the Hermes of Praxiteles or other Praxitelean statues, the Melenger of the Vatican, the Agins (Fig. 2). He will find it to be quite of

a Front n smal,

another type, long, lean, sinewy, all skin and bone and tendon, without flesh to soften the transition. Then let the same foot be compared with that of the Fighter of Agasias: the two will be found to belong to the same class, though the Agasias statue is somewhat more extreme. And what is true of the foot is true of all parts of the body. Sir Charles Newton, who was in the habit of examining Greek statues with some of the best judges, besides being a skilled judge himself, used to say of the Apoxyomenos that it was a man skinned; and that is certainly the impression which its learned and elaborate technique leaves on the student.

I must not, however, be supposed to say that the Apoxyomenos is a purely naturalistic work. On the contrary it contains two elements not easy to reconcile, a striving to embody academic rule or tradition and an attempt at anatomic correctness. To the first of these elements archaeologists have done justice: it has been recognized that the statue represents a distinctive



FIG. 3. - WART OF APPXTONENCES.

school, and is intended to embody a canon of proportions. And archaeologists have been quite right in identifying its school as that of Argos and Sicyon. Among other details the remarkable emphasis laid on the muscle just above the knee, which Michaelis has pointed out as a mark of the school of Polycleitus, confirms this view. But the second element is not less prominent. I would cite the treatment of two parts of the body in particular, as examples.

On the front of the left thigh of the Apoxyomenos there is a triangular depression between the muscles called tensor fasciae and sartorius (Fig. 3). There is also a marked division between the genelli muscles in the calf of the right leg at bottom. I have not found these points, which are anatomically correct, thus noticed in works of the fifth or fourth centuries. Both are

<sup>\*</sup> From a cost.

notable in the Agasias figure. No doubt a minute observation of a model with highly developed muscles and no fat might enable any sculptor to observe these points: I have seen photographs from the living body in which both are clear. But Greek sculptors, even in the fourth century, preferred to cover the working of the muscles with a layer of flesh. In such emphasis on exact points of muscular structure as we find in the Apoxyomenos, we may notice a different spirit, and the influence of anatomic study, of myology. Again, in the side above the hip we may notice a treatment of the obliquus externus muscle quite different from that of the Agias (Fig. 4).19 Indeed we may say that the way in which the upper part of the body is joined to the hips is quite different from anything to which we are accustomed in fourth century statues: the result being to give the body a swing and a motion which are very notable.



FIG. 4.-WAGST OF AGEAR.

Of the influence of an anatomical school, as well as of the swing and motion in the Apoxyomenos, the Agias shews no trace.

While the general proportions of the two figures as regards length of lines are not dissimilar, the Apoxyomenos being the slighter of the two, in the treatment of surface and of muscle the two statues differ fundamentally. We find in fact between the Agias and the Apoxyomenos exactly the development of which Lange, in the passage already cited, has written. The man who made the Agias, like Praxiteles and other fourth century sculptors, copied what was visible on the surface of male bodies not exceptionally trained, but exceptionally beautiful. The man who made the Apoxyomenos, though he was academic in style, yet knew what lies beneath the surface of the body; and this knowledge in some cases, though not in all, guided his band, perhaps without his recognizing the fact.

W From a cast.

In Greek sculpture, in spite of its general regularity, there are abnormal phenomena here and there. Occasionally, at all periods, we may find striking bits of naturalism scarcely consistent with their surroundings. For example, in the National Museum at Athens, there is an archaic male figure, the work of the knees and shins of which is wonderfully detailed. In the middle of the fourth century it is possible to find figures which have a certain anatomical appearance. The most remarkable instances known to me are some of the men and some of the horses in the Amazon frieze of the Mausoleum. But these figures, though the museles and veins are very prominent, do not seem to me to be so correct in detail as to indicate any anatomical study: the opposite is rather true of them.

We must, however, see whether there is any extant evidence to be gained from statues, as to the treatment of limb and muscle by Lysippus. It has been not uncommon to find such evidence in a statue of the resting Herakles in the Pitti Gallery at Florence,10 on the basis of which is the inscription Αυσίππου έργου. It has sometimes been assumed that the inscription guarantees this work as an exact copy of a Herakles of Lysippus. This, however, would certainly not be a legitimate assumption, were the antiquity of the inscription beyond dispute, which it is not. And as the head upon the statue is a portrait of Commodus,14 the notion that we have an exact copy is evidently fanciful. The statue belongs to a large class, of which the best known example is the Herakles Farnese at Naples, made by the sculptor Glycon. These figures differ among themselves in a marked degree in work and style, and there is none but internal evidence as to which is nearest to Lysippus. I should grant as a probability, though not as a certainty, that Lysippus made a Herakles in this attitude; but in fact, as has been more than once pointed out, the attitude goes back beyond Lysippus to the fifth century,12 None of the copies throws any light on the detailed treatment of surface by Lysippus. The Herakles who has strongest claim to a Lysippic character is the young Herakles in the Lansdowne Gallery, the close likeness of which both in pose and detail to the Agias has already been pointed out in this journal, in and is obvious to everyone who compares easis or good photographs of the two. Yet of course Lysippus did not confine himself to one type of Herakles; and he probably represented the hero as he did Alexander at various periods of

<sup>&</sup>lt;sup>11</sup> 'Εφ. 'Αρχ. 1902, Pi. III. The photograph is not so taken as to bring sut the points above mentioned.

<sup>&</sup>lt;sup>46</sup> See especially Brunn, Deskutater, Pl. XCVIII, 100.

Anndung, Führer durch die Antiken in Florenz Braun, Destamber, Pt. CCLXXXIV,
 This fact, strangely enough, is not mored

by Ameliang.

Mahley, Polyklet and grear Schule, p. 116;

Furtwangler in Resider's Levikon, s. p. 2172; Jahrbuch des Inst., Anzeiger 1894, p. 25. Next to the manupition cited above, the best evidence for a Lysippie status of this type is found in a small copy of it on a coin of Alexander the Great, probably struck at Sicyon: New Ch., 1883, Pl. 1, 5.

Nol. 23, p. 129. So M. Hamalle in E.C.H. 25, 456.

hife. Of the bearded heads of Herakles, the finest is that in the British Museum, and it may in essentials go back to a Lysippic original. The bearded statues of the standing Herakles, figured by Mahler in the work already cited (pages 145 and 147), are probably nearer to the style of Lysippus than is the statue of Glycon.

We possess, in the reliefs which adorned the basis of the statue of Pulydamas at Olympia by Lysippus, what ought to be very valuable



FIG. 7. - HEAD OF ARIAS.

material for determining his style. These reliefs, though not of course by the Master himself, belong to his school. The reliefs from Mantinea, which in a similar way represent the school of Praxiteles, no doubt are of great value in the consideration of the work of Praxiteles. But unfortunately the

<sup>&</sup>quot; Arcient Marbles, 1, 11, cf. the Steinhauer band, Mon. d. J. viii. 54.

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Pulydamas reliefs are so greatly damaged, that they are almost worthless for any such purpose. Dr. Treu ventures on the observation that the legs of Pulydamas in the central relief, which represents him carrying on his shoulders a vanquished antagonist, are thin and sinewy. The figure of the seated Persian king is majestic and dignified. Further than this we are scarcely able to go.

It would thus seem that the definite evidence for the treatment of the human body by Lysippus, outside the monument of Daochus, is but slight.



Pm. 6.—HEAD OF APOXYONENCE.

Turning from the body to the head of the Agias and the Apoxyomenos, we reach similar results. The head of the Agias (Fig. 5) <sup>10</sup> is strangely formed, with low forehead and small occiput; but in the treatment of forehead, eye, and mouth, one may trace some resemblance to the Tegean heads, a resemblance which seems to shew, at all events, contemporaneousness. And it is by no means inconsistent with what Plutarch tells us as to the success of Lysippus in representing the manly and leonine air of Alexander. To this subject we must presently return. The hair of the statue does not it must be confessed, shew much of the distinction and

<sup>19</sup> Familles de Delphes, Pl. LXIV.

expressiveness which belong to the hair of some Lysippic heads. It is in fact only sketched out. But we must remember two things: first, that a very simple form of hair is appropriate to a pancratiast, and second, that in the copying of bronze in marble scarcely any part of the figure would suffer so much as the hair.

For a more precise and detailed description of this head, the reader must turn to the paper of M. Homolle, who, in concluding, speaks of 'les différences profondes qui existent entre la tête d'Agias et celle de l'Apoxyomenos, et qui, au milieu de beaucoup d'antres ressemblances, pourraient faire hésiter sur la commune origine des deux œuvres.' I think that anyone who compares our figures, 5 and 6, will agree with this

It is a curious proof how the attribution of the Apoxyomenos to Lysippus has blinded the eyes of archaeologists, that the head of that statue (Fig. 6). has been taken as an index of his representations of the male head. This head is in fact of early Hellenistic type, and its want of expression stands in marked contradiction to what Plutarch tells us about Lysippus. From the testimony of ancient writers we learn that the works of Lysippus were of a stormy, expressive, and idealizing character. But we throw all this testimony aside, because we are determined to judge Lysippus by the Apoxyomenos. It has indeed become quite the custom to speak of Lysippus as in style somewhat superficial and inexpressive. These phrases may apply to the author of the Apoxyomenos. But to apply them to Lysippus is to run counter to the most definite statements of ancient writers.

We owe to the wide knowledge of Professor Furtwangler the observation that the head of the Apoxyomenos is the earliest young head in which the marked furrow in the forehead, usual in works of the fourth century, is replaced by a wrinkle. It is true that in the heads of the Olympian pediments and the Parthenon metopes the horizontal wrinkle is quite usual; but this is very different, quite superficial; the wrinkle of the Apoxyomenos strikes one as something new and something decidedly post-Praxitelean.

# II .- The Date of Lysippus.

Probably some archaeologists may be disposed to allow a considerable difference in date between the Agias and the Apoxyomenos, but may yet hold that both may go back to Lysippus, the one statue representing the work of his youth, the other of his maturity or old age. In order to meet this objection, I must consider what is really the date of Lysippus. Canina saw no great difficulty in attributing the Apoxyomenos even to the time of Polycleitus. But the perception of its true period and character has gradually dawned on archaeologists. And the result has been a curious one: it has been a gradual pushing of Lysippus from his proper place in the

B.C.H. vxiii. p. 455-6.

<sup>&</sup>quot; From a cust.

<sup>&</sup>quot; Musterpiece, p. 204.

history of Greek art. Archaeologists could not separate him from the Apoxyomenes, and so had to bring him down to a later and later period.

Thus there has arisen an increasing tendency to consider Lysippus as a far younger contemporary of Scopas and Praxiteles. Recently it has become not unusual to make his period the latter half of the fourth century; while Scopas and Praxiteles are placed in the middle of that century. When however we try to throw into perspective the evidence on which this view is based, discriminating between what is really trustworthy and what has little value, we shall find that it does not really support the current view.

To begin with Scopes. His date can only be fixed by that of the Mausoleum, about a.c. 350, and that of the later temple of Ephesus, during the earlier life-time of Alexander the Great. His work on the temple of Athena at Tegea has usually been placed much earlier than the time of the Mausoleum. The old temple was destroyed about B.c. 394, and it is presumed that it was shortly afterwards rebuilt under the direction of Scopss But for the time of this rebuilding there is no documentary or inscriptional evidence, and if we go by the evidence of the remains themselves, a later date than B.C. 390 would suggest itself. M. Mendel in the Bulletin 22 observes that though the architectural decoration of the temple recalls that of the Erechthoinm it is decidedly later, and resembles rather that of the great temples of Asia of the middle of the fourth century, or even of the Sarcophagus of Alexander. In regard to the sculpture also, it is not easy to place it forty years earlier than that of the Mausoleum. It would naturally suggest itself that the new temple at Tegea was built just at the time, about 370-360 R.c., when so much temple building was going on in Peloponnesus, at Messene, Megalopolis, and other places. It would thus seem probable that the scalptural career of Scopas did not begin so early as is usually supposed. To the main argument of the present paper, this is a question of very small importance; but it is worth while in passing to question the view which makes Scopas precede Lysippus by a generation.

The date of Phiny for Pravileles, B.C. 364, is perhaps that of the Aphrodite of Chidns. Pliny's date for his sons, not a trustworthy date, as their names do not come first in the list, is B.C. 296, the same date as that of the sons of Lysippus, M. S. Reimach gives the Hermes with the child Dionysus to B.C. 363, Prof. Furtwangler to B.C. 343. We have in fact little evidence for the date of Praxiteles beyond the statement of Pliny, and the internal evidence of extant statues. The most recent writer on Praxiteles, M. Perrot, thinks that he was born about B.C. 390.

Lysippus' date in Pliny is simply taken from the florait of Alexander the Great. It is n.c. 328. This may possibly be the date of a noted portrait of Alexander by Lysippus, though as Alexander was then campaigning in Bactria, no portrait of him, in the strict sense of the word, could be made at that time. We are however told that Lysippus made many statues of Alexander from

his boyhood onwards, which will take us back to the middle of the century. The connexion of the name of Lysippus in the well-known story with that of Eupompus the painter seems to take us further back still. Eupompus belongs to the latter part of the fifth and the early part of the fourth century; and if Lysippus even in his youth was contemporary with Eupompus, he cannot have been born much later than B.C. 400. However, of course not much serious weight can be attached to these anecdotes about sculptors.24 More important is the date given us by the Lysippie portrait of Troilus mentioned by Pausanias 23 Pausanias tells us that Troilus while Hellanodikes won two victories, one with grown horses and one with colts, in Ol. 102, s.c. 372; and that Lysippus executed his statue. The lower part of the base of this statue, on which the artist's name probably appeared, has been lost; but the epigram is still extant in which Troilus says that he won with iπποι άθλοφόροι and then έφεξης with iπποι. This has been construed as meaning that Troilus was victorious in R.C. 372 and then again in the next Olympiad, B.c. 368. But Psusanias says distinctly that both victories were won in a year, and chekn's seems to me to bear that interpretation, and that interpretation only. It is clear then that the two victories of Troilus were both won in B.c. 372. And the lettering of the epigram furnishes satisfactory proof that the statue was erected at once. Mr. M. N. Tod, whom I have consulted on the epigraphic point, observes that the forms of the letters, taken with the use of O for OY, would seem to give a date somewhere between B.C. 400 and 360. The forms indeed are much like those of the inscription in Loewy, No. 102, in regard to which Loewy remarks, Schriftcharakter und Orthographie (O=OY) der ersten Zeit mach Euklid. Thus there is no reason for rejecting the natural view, that the statue of Troilus was set up soon after u.c. 372.

The contrary has been maintained by high authority; but the reason probably is the difficulty of assigning so early a date to a work of Lysippus, and this reason falls away if we divide the sculptor from the Apoxyomenos. It would seem then that Lysippus was at work quite as early as Praxiteles. and very possibly as early as Scopas. He was strictly their contemporary. On the other hand, he would certainly seem to have outlived them, since he worked for Alexander and his generals, while we do not hear that Scopas and Praxiteles undertook commissions for these. His latest works take us down at all events to B.C. 320. At that time he may well have been about 70; and the lives of Titian and Michael Angelo and Watts prove that a man may do remarkable work at that age.

There is some evidence for work by Lysippus at a later date than B.C. 320. And if he were born, as seems probable, about B.C. 390, he may well have accepted commissions, to be executed mainly by his pupils, for several years after 320. But at the same time we may observe that the proofs that this was the case are of a flimsy character.

The story mentioned seems to be vouched tales of the kind, for by Duris who is almost a contemporary; it stunds therefore on a better basis than most

<sup>#</sup> vi. 1, 4 ; et. Lowny, Instity, greech. Ribbhoncer, p. 76.

The great bronze group at Delphi by Leochares and Lysippus which represented the lion hunt of Alexander and Craterus has become more of a reality to us since the base of it with the inscription has been discovered at Delphi.26 This inscription states that the work was vowed by Craterus and dedicated by his son. Craterus fell in battle in B.C. 321. The most natural and simple supposition is that the work by Leochares and Lysippus was already begun but not completed when Craterus was slain.

As to the other inscribed base by Lysippus 27 Loewy has shewn so many

ambiguities to inhere in its dating, that we need not here discuss it.

Pausanias tells us of a certain Cheilon, to whom on account of his gallant death in a battle, a statue was set up at Olympia by the Achaeans. This statue was by Lysippus, and from this fact Pausanias infers that Cheilon must have fallen either at Chaeroneia (B.C. S38) or before Lamia (B.C. S22). Pausanias judges justly; these were the two occasions during the lifetime of Lysippus, when the Achaeans took part in an important war. And

both of these dates fall within his working-time, as I would fix it

Mention must however be made of one or two items of evidence which seem to indicate a later date. There is the well-known inscription copied in the Vatican by Pietro Sabino, Σέλευκος βασιλεύς, Λύσιππος έποίει, which has been supposed to shew that Lysippus made a portrait of Seleucus after he had taken the kingly title in B.C. 306. But we have only to suppose that the word βασιλεύς was (naturally enough) added by the Roman copyist, to destroy the special bearing of this inscription. That Lysippus should have, either before or after the death of Alexander, made a portrait of his trusted officer Sciencus, as of Craterus and many others, is likely enough. As to the story in Athenaeus which connects the name of Lysippus with the foundation of Cassandreia in B.C. 316, it need not be taken seriously.

There is thus no serious evidence for works of Lysippus of a later date than about B.C. 320. It is convenient in histories of sculpture to place him in a later chapter than Praxiteles and Scopas. But he seems during all the carlier part of his life to have been strictly their contemporary; very probably all were born early in the fourth century, though Scopas might have been born in the fifth. On the other hand it can scarcely be doubted that Lysippus outlived the other two. The number of his works, and his connexion with the generals of Alexander, prove this. Yet this fact is not of great importance in regard to his style. For it is very unusual for a great artist seriously to alter his method of working in his old age. By B.C. 340 or thereabouts he would have fully formed his style; and after that so busily active a man would scarcely change it.

It is the more important to point out the contemporaneity of the three great masters of the fourth century, because it has of late become something of a fashion to insist on the influence of Scopas on Lysippus. Such influence

<sup>28</sup> Homelle in B.C.H. xxi, p. 598. 26 VI 4 6. - Loswy, Inschr. griech, Bildhauer, No. 93. n Lowwy, No. 487. Plutarch, Alex. 10.

there would naturally be: great contemporary artists usually exercise some influence on one another, whether in the way of attraction or repulsion. That there were points of strong likeness between the two sculptors is becoming more and more evident; but we are as yet scarcely in a position to say which was the leading spirit. And if, as is likely, Scopas influenced

Lysippus, it is also likely that Lysippus in turn influenced Scopas.

If then the range of Lysippus works stretches from a.c. 372 to 320, it cannot be maintained that the Agias statue represents his earliest work. For in that case, when the group of Daochos was executed, in a.c. 339-331. he was decidedly over fifty years of age. He can hardly, after that, have so far changed his style as to produce a statue so different from the Agias as is the Apoxyomenos. After sixty, very few painters or sculptors have radically altered their style; and in the case of Lysippus we must not, without good

grounds, assume such a change.

It will be observed that the position which I am criticising is the view that the Apoxyomenos, though confessedly a work of the Roman age, and a copy in marble of an original in bronze, yet mithfully reproduces a lost work of Lysippus, and may be considered in all its details as the type of his style. It is however evidently possible to hold a somewhat different view," that the Roman copyist, while preserving the general type and attitude of the Lysippic statue, has in some degree modernized the anatomy. In support of this theory, there has been cited a torso at Athens 22 of a figure in the same attitude as the Apoxyomenos, but treated in a much simpler and drier style. This might very well be taken, and in fact has been taken, to prove that the most striking features of the Apoxyomenos are due to some artist of the Neo-Attic School, some such master as Glycon or Cleomenes. I must at once allow that those who adopt this view are thereby shielded from such parts of the preceding argument as have reference to the detailed and anatomic character of the surface of the Apoxyomenos. My polemic has been directed against taking the Apoxyomenos, as it stands, as an index of the style of Lysippus. This is what has been commonly done by archaeologists; and it is against this that I appeal. If it be held that the statue, as it stands. only bears the same relation to a bronze original by Lysippus as the Herakles of Glycon bears to a possible Lysippic Herakles, then we have a view which is much more reasonable, and much more defensible.

At the same time, it appears that there are still some features in the Apoxyomenos for which this theory does not well account. It is not only the surface of the Apoxyomenos which is later in character than the age of Alexander, but also the whole build of the figure and its composition. On this subject Prof. Loewy has some good remarks. He observes that the author of the Apoxyomenos (whom he naturally calls Lysippus) was the first of

This is the date at which Freuner strives (Rim Delphisches Writigenhest, p. 12) after careful investigation. M. Homolle ventures to determine the date still more precisely to

<sup>338-334;</sup> B.C.H. xxiii. p. 440.

This view has been taken by U. Koehler,
Atth. Muth. 1877, p. 57 and others.

<sup>#</sup> Ath. Math. 1877, Pl. IV.

Greek sculptors to compose works really in three dimensions. In the naturalistic rounding of his figure, many aspects pass undistinguishably into one another; he exercises in the front view full freedom of foreshortening, not only of the trunk, which bends in various directions, but of the whole figure, arms and legs stretching boldly into the void. With this, complete success is secured in dealing with the round. But this freedom from the use of only two planes certainly does not belong to the contemporaries of Lysippus; and it seems clear that it is a mark of the age of expansion after Alexander the Great. And this feature cannot, like the peculiarities of the surface, be abstracted from the statue, which is full of ease and motion, one aspect of it fitting in with another. I am therefore much more inclined to think that the statue, as it stands, is a fairly correct reproduction of a Greek original of a time somewhat later than Lysippus. Of this view I will say more in the final section.

## III. - Ancient Critics on Lysippus

I must briefly speak of the statements of ancient writers in regard to the style of Lysippus. Such statements are usually of a very superficial character; but we cannot neglect them, more especially as Lysippus lived just before the rise of the literary school of Alexandria, and was naturally the subject of much criticism.

I have already touched on the chief of these statements, that Lysippus introduced changes into the recognized proportions of the human body. This assertion is doubtless based on fact. But other assertions, and more especially such as seem to imply that Lysippus was a naturalistic sculptor, require a further and a more sceptical investigation. For example we have the assertion of Quintilian 'Ad veritatem Lysippum ac Praxitelem accessisse optime affirmant." We cannot believe Quintilian if he means by this that Lysippus was a realist in the modern sense of the word, closer to unimproved nature. In Quintilian, Praxiteles is coupled with Lysippus, and how little of a realist Praxiteles was, we all know. Of course through the whole history of ancient art down to its decline there went a careful study of nature, so that in some respects sculpture may be said to have moved nearer to life. But there were other tendencies, quite as strong, which preserved its ideal character. It is probable that great sculptors never fully realize how much of themselves and of current ideas they put into their works. Often idealists are quite convinced that they are only following nature : what they add to nature they add unconsciously, and because they cannot help it.

On the whole, the ancient testimony as to Lysippus establishes his ideal character. The man who represented Alexander to his own satisfaction, and laid stress upon his leonine and manly air would not be a realist. A Cromwell might tell a painter to copy his scars and wrinkles; but Alexander was

<sup>22</sup> Linewy, Die Natureniedergube, p. 49; so
22 Linewy, Die Natureniedergube, p. 49; so
23 These are all to be found in Overbeck's also Klein, Geschichte ii. p. 342.

Schriftgnellen, pp. 287 and foll.

of quite another type, and the main object of his ambition was to rise above

the ordinary human level.

There is a story that Lysippus was induced by a saying of the painter Eupompus to take nature rather than any master as his guide. But to this story, as I have already observed, little value attaches. In fact the opposite tendency, the academic, is insisted on by better authority. Cicero says that Lysippus spoke of the Doryphoros as his master, and Pliny says that he paid great attention to the theory of proportion.

Pliny also records that Lysippus excelled capillum exprimendo. Now of all parts of the body the bair least admits of naturalistic treatment, since its forms are constantly varying, and anything but plastic. But on the other hand the bair can be used to give character and expression to a head. In portraits of the early Hellenistic age of philosophers and the like, the hair and beard are treated with great skill, and used to give character. Probably Lysippus excelled in this matter, which had been neglected by his predecessors and even his contemporaries. The hair is a very noteworthy feature in such heads as the Zeus of Otricoli, the bearded Herakles of the British Museum, and the Poseidon of the Lateran, all of which may be more or less Lysippic. In portraits of Alexander, as we shall see in the next section, the hair is usually treated with expression. On the other hand the hair of the Apoxyomenos, though worked out with some care, is decidedly wanting in character and expressiveness.

Another statement of Pliny is that Lysippus shewed great vigour in detail: 'argutine custoditae in minumis quoque rebus.' But argutine does not in the least imply minute accuracy or naturalism in the rendering of detail: it implies animation or vividness throughout, much the same thing as Propertius means when he speaks of the 'animosa signa' of Lysippus. Animation seems to have been as striking a feature in Lysippus' statues as in

those of his contemporary Scopas.

Finally we have in Pliny the reported statement of Lysippus himself, that his predecessors depicted men quales essent, while he depicted them quales viderentur esse. Few passages have lent themselves to more discussion than this. Some archaeologists have regarded it as an affirmation of the impressionist character of Lysippie art; some as a statement of his allowance for perspective; some as a declaration of his idealism. It would take too much space if I endeavoured to discuss this passage in detail; I will only briefly indicate my own view, which is that the passage must not be considered in isolation, but in connexion with other art-criticisms of Greek writers. We may fairly trace back most of these to some germ in the Poetics of Aristotle, who may be said to have set criticism going, and who formulated those phrases about ethos and pathos, idealism and naturalism, which formed the stock in trade of lesser men. In the Poetics, Sophocles is made to say that he represented men ofour delate. Here it can scarcely be doubted that Sophocles is meant to

Compare the paper of Prof. Kekule in the Jakrbuch, 1893, pp. 39-51.

contrast his own ideality with the comparative realism of Euripides. I am disposed to think that under the Plinian phrase, quales viderentur esse, there lurks some Greek expression to the effect that Lysippus also was an idealist. The words ofour corer civat have been suggested as the phrase which Pilny has misrendered, and the suggestion is at all events ingenious. At the same time the view that he claimed to have introduced more perspective into sculpture has much in its favour. In any case, to escape from an interminable discussion, I think it clear that whatever Lysippus may assert in regard to his own style, he at all events declares that it differs from that of his predecessors, in that he does not represent men just as they stand. Whether his improvement consisted in introducing a better canon of proportions, or in treating details in a more characteristic way, it is less easy to say. But he certainly disclaims realism.

In the interpretation then of statements of ancient writers, as in the question of date, the attribution of the Apoxyomenos to Lysippus has been a misleading light, and interfered with their natural rendering. Archaeologists have found an affirmation of the naturalism of Lysippus in passages which do not bear that meaning.

### IV .- Lyspyms and Alexander.

We now reach my next contention, which is, that the whole question of the portraiture of Alexander the Great has been confused, and drawn, so to speak, out of focus, by the inference of the Apoxyomenos. We have had two great monographs upon the portraits of Alexander, by Koepp and by Schreiber," both containing much learning and written with ability, which have for this reason fallen short of success. The still more recent work of Bernoulli, on the other hand, being less dominated by a theory, avoids most of the mistaken conclusions into which this ignis fatuus has led many able archaeologists. The whole history of this investigation is an illustration of the danger of piling fresh theories upon a theory which is at the time accepted, but is liable to be called in question. The only safe ground for a theory is positive or documentary evidence; and if it is allowable and necessary sometimes to admit as working hypotheses views which have only a moderate degree of probability, it is essential that their doubtful character should be always kept in mind, and that no attempt should be made to use them as supports for further speculative constructions. One is reminded of what has sometimes happened in English building. The Norman builder has sometimes built a low wall on a small but sufficient foundation. A subsequent builder has sometimes raised the height of the wall without examining that foundation, and as a result the whole has collapsed.

A current misconception, piled upon the top of those already mentioned,

<sup>\*</sup> F. Koepp, Veler das Bildaies Alexanders Bernoulli, Die crimitanes Darstellanges Alexdes grussen, 1892; T. Schreiber, Studios neber dus Bildnies Alexanders des grauen, 1908 : J.

anders des grounn, 1905.

proceeds from a supposed likeness between the head of the Apoxyomenos and the Azara head of Alexander in the Louvre to deduce the conclusion that this Azara head is Lysippic, and in fact preserves for as a copy of one of the most noted of the Lysippic portraits of Alexander, the Alexander with the spear. To begin with, the likeness between the two heads is but superficial, and is no safe basis for a theory standard further it seems to me extraordinary that anyone who has read the passage in Plutarch as to Lysippus' portraits of Alexander can find a copy of one of them in so

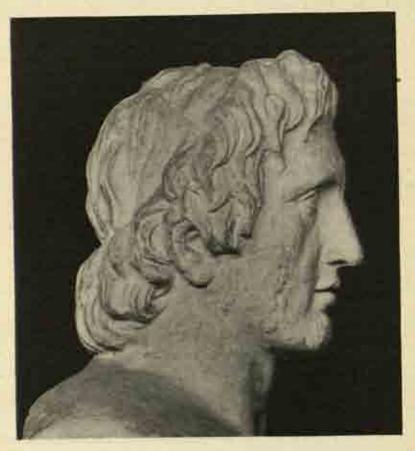


FIG. 7.-ARADA HEAD OF AGENANDES.

miserable and characterless a work of art as the Azara portrait. 'Lysippus alone,' says Platarch, 'incorporated the character of Alexander in bronze and gave his body its indwelling valour; others, wishing to render the bend of his neck, and the melting look of his eyes, failed to preserve what in him was manly and leonine.' Platarch further says that Lysippus represented

<sup>\*\*</sup> Bernoulli observes that the points of noss Die erhaltenen Darstellungen Alexanders, difference are more notable than those of tike- p. 24, cf. Figs. 6 (above) and 7.

Alexander as gazing up towards the sky with proud and presumptuous air. What of all this is there in the dull Azara portrait ? (Fig. 7).18

But it has been maintained that we have a definite reason for connecting the Azara head with Lysippus because it resembles the head of a small bronze figure which may reasonably be regarded as a reduction of Lysippus' Alexander with the spear 25 This bronze is figured by Schreiber. 60 It comes from Egypt. I would readily allow that this statuette may well be a reminiscence of one of the Lysippic portraits of Alexander; but it is not legitimate in such a case to assume that it is a close copy of the statue. And I agree with Bernoulli that the minuteness of the head of the statuette, and the exidation which it has undergone, make it a very unsound basis for any theory. What is quite clear is that the Azara head could not be placed

upon any such statue as Pintarch describes without incongruity.

I venture to think that the whole question of the portraiture of Alexander has been placed on a false basis through what may be termed a mistake in psychology. Archaeologists have been misled by the tendencies of modern art, and have not clearly seen how much there is in ancient portraiture of idea and belief, in proportion to visible fact. They underrate the extreme idealism of fourth century art. The attempt to recover the actual traits of the Macedonian hero, as they might appear in a photograph, is a hopeless quest. No one at the time looked at Alexander with the cold and critical eyes of science. All that we can hope to recover is the mental, rather than the visual, images which those about Alexander formed of him. Different sculptors, we are told formed different types of the hero, each doubtless according to the formed style of his art. Foremost among them stood Leochares and Lysippus. Alexander preferred the Lysippic rendering of himself because he discerned in the art of Lysippus a kinship to his own manly and ardent nature. Some of the sculptural types of Alexander was may hope to identify smid the numerous extant statues and statuettes which are more or less intended to represent the great king. We can throw them into classes. But we shall scarcely be able to say how nearly they resemble the hero whom they portray.

In fact in portraiture, as in the representation of limb and muscle, the turning point came about the year a.c. 300. Every one who is accustomed to dealing with Greek coins knows that we do not find on them strongly marked and naturalistic portraits until the third century. In sculpture the same thing holds. The break comes between such a portrait as that of Sophocles of the time of Lycurgus (s.c. 337-323) with its noble ideality, and such a portrait as that of Demosthenes of the time of Polyeuctus (B.C. 280), which combines this idealism with a closer approach to fact and

history.

I do not think that we can yet venture to select one among the many portraits of Alexander which have come down to us as definitely Lysippic;

<sup>&</sup>quot; From a cust.

Tolide at Oath: 24.

<sup>=</sup> This statue is mentioned by Platarch, De-

<sup>.</sup> Pl. VI. of his work.

but the direction in which we should look is not towards the Azara head, "but rather towards the portrait on the coins of Lysimachus (Fig. 8), and the head of Alexander in the British Museum (Fig. 9). These have indeed no kinship with the head of the Apoxyomenos; but they have a sort of cousinship to the head of Agias, and they correspond for better with the words of Plutarch.

We may put the matter broadly thus: the coins of Lysimachus give us the traditional portrait of Alexander as his younger contemporaries thought of him. And this popular conception would certainly be embodied in the portraits of Lysippus. There is a strong likeness between the coins and the British Museum head; but none between them and the Azara head, It follows that the British Museum head is nearer to Lysippus; and it conforms to the passage of Plutarch. At first sight it strikes one as Scopaic, that is to say, like the Tegea heads; but taking the head of Agias as Lysippic, we may find in it in some respects, notably in the form of the eyes,



Fro. 8.—Corn of Litstwachus (Enlarged)

a still nearer likeness to the British Museum type. I cannot but regard the theory of Koepp and Schreiber that the Azara head is a naturalistic portrait of Alexander by Lysippus as a most unfortunate one. The Azara head has some appearance of naturalism. Even Bernoulli thinks it naturalistic. In my opinion the poorness of the work, the restorations (nose), and the want of symmetry between the two sides of the head, give it an appearance of naturalism which a closer examination scarcely justifies. If however it be an exact portrait of Alexander, it is of Alexander at the very end of his life. It is in the last degree unlikely that the aged Lysippus would have made a journey to Babylon to make a fresh portrait of the king. Kings like to go down to posterity at their best and not at their worst.

des Lynippes arhalten soin soil."

G So Bernoulli, Die erhaltenen Darstellungen Alexanders, p. 25 'Will es mir meht recht in den Sinn, dass uns in dem Pariser Hermanhildniss der Kopftypus des berühmtesten Warkes

<sup>\*</sup> From a cast. The coin is in the British Museum.

And it may be observed in this connexion that the portraits by Lysippus of which we know anything were of the boldest and least naturalistic type. The portrait of Agias represents a man who had been dead for about a century. The Lysippie portrait of Pulydamas was posthumous. In the group of the horsemen who fell at the Granicus set up at Dium Lysippus, according to Pliny, 'imagines summa omnium similitudine expressit'; but no one has suggested that Lysippus saw and copied the dead bodies, and how else could be get exact likenesses? The phrase of Pliny



Fm 9.-Hear IS THE Berrial MUSEPAL

only shews that the Roman critics like many moderns could not discern between life-likeness in a portrait and a close adherence to the original.

M. Collignon has some good remarks on the supposition that Lysippus was a naturalist in portraiture. Peut-il être considéré comme l'initiateur de l'évolution qui se manifeste avec tant de force dans l'art hellénistique, et introduit dans le portrait un si curieux accent de vérité? Il serait imprudent

de l'affirmer. Au IV° siècle, le portrait réaliste n'existe pas encore, et This must be taken as a revision of the opinion which M. Collignon expressed some years ago: "C'était une nouveauté de rompre avec l'idéal de perfection du V° siècle, et d'abandonner le culte de la beauté conventionelle pour se rapprocher de la vérité particulière. C'est surtout dans les traits du visage que Lysîppe exprime le charactère individuel." In this change of view other archaeologists may well follow M. Collignon.

#### V.—Conclusions,

My position then is that a determination to regard the Apoxyomenos as the model of Lysippic work, and the notion that Lysippus must have been a realist, have acted perniciously in pushing Lysippus out of his proper place in the history of Greek sculpture, both as regards his date and his style, and that the time has come for a fresh study of the whole question. Such fresh study would probably have led to no trustworthy result, apart from the discovery of the Agias, which gives us just the inscriptional evidence which we wanted, and enables us to start on a more trustworthy road than that which has hitherto been trodden.

Taking the Apoxyomenos as it stands, I would maintain the view that it fairly represents, not of course the later Hellenistic age, but the period after s.c. 300, when the knowledge of anatomy was fast coming in. And although I deny any class connexion with Lysippus, I would certainly not call in question its ultimate derivation from the bronze school of Sicyon, of which Lysippus was the most noted member.

What is academic in the Apoxyomenos, the careful proportions, the occasional conventions, connect it with the school of Sieyon, while the anatomic knowledge and the boldness of perspective indicate the third century, and mark the road which ends in the Borghese fighter and the

hanging Marsyas.

But while disputing any close connexion between Lysippus and the Apoxyomenos, I do not deny that in some respects archaeologists have formed a satisfactory view of the position of this Master in the history of sculpture. It is of course right to contrast the slender proportions which Lysippus introduced with the sturdier and less graceful outlines of the statues of Polycleitus. And it is quite right to consider Lysippus as in a broad sense the author of those manly and nude standing types of the gods which come in about the middle of the fourth century, such as the British Museum statuette of Zeus from Paramythia, and the statue in the Lateran which represents Poseidon standing with his foot resting on the prow of a ship. He may also be fairly regarded as responsible for the heads of Helios which

<sup>44</sup> Lymppo, p. 92:

<sup>&</sup>quot;Text to Rayet's Monuments de l'art antique, No. 55.

M. Colliguon calls attention to the close likeness between such works as the Apoxyo-

menes or the Herakles of Glycon and the terracottae of Smyrna of the third century. Lycopy. p. 123.

<sup>#</sup> B.M. Brown, Pl. VI. No. 274.
# Brunn's Doubmiller, Pl. COXLIII.

resemble Alexander, and for the later type of Zeus head, which appears in a mannered and extreme form in the mask from Otricoli. No doubt in our museums there are many other works which a careful search would discover, and which we could now, by the evidence of the Agias, attribute to the school of Lysippus. As the Master worked only in bronze, it is most unlikely that any of his actual works will be recovered, or even any marble copy which we can implicitly trust.

I do not at present propose to follow up the clue given to us by the Agias, or to endeavour to select among extant statues those which have the best claim to be by the author of this portrait. I have already suggested that it is impossible to divide the Lausdowne Herakles from the Agias; and to that view I certainly adhere. But I shall not go further in this matter. The conjectural attribution of extant statues to great masters of the fifth and fourth centuries has been carried of late years far beyond the bounds of prudence and moderation; and although it is a far safer task to attribute statues to Lysippus than to almost unknown masters like Strongylion or Phradmon, yet it is a task which can well wait.

It has been much the custom among archaeologists, and still more among art-critics without archaeological training, to speak of the age of Lysippus, the fourth century B.C., as a time of softness and decadence. No doubt decay and corruption set in at Athens in that century, with the decay of political energy and religious belief. And in the works of Praxiteles, for all their consummate beauty and technical mustery, we may note the beginnings of a decadence. But in the sculptures of Scopas, so far as they are known to us, there breathes a remarkable force and ardour. And Lysippus was pre-eminently a manly and spirited artist. While Athens was entering on the path of decay, the policy and the victories of Epaminondus had given a fresh lease of life to the people of Peloponnesus. Great cities, Messene and Megalopolis, arose with their public buildings and their temples. And many of the other cities, such as Mantinea and Aegium, became more populous and powerful. It would be absurd to speak of any decadence in Pelopounesus at this time. Rather, the loosening of the Spartan voke had made the towns rise in a generation to a far higher level of culture and power. These external conditions are reflected, as is often the case, in the activity of the greatest Peloponnesian artists - Euphranor, Nikias, Apelles, Damophon, and most notably Lysippus. It might almost have been called a new branch of the tree of Hellenic art, which suddenly flowered and bore fruit. And from it fresh shoots were transplanted into the vast empire which was founded beyond the sea by Alexander.

But the real expansion of Hellas came, not in the days of Lysippus, but in the time of his school. And in regard to this I must add a few words.

Wolters, Zamsteine, p. 594.

Lysistratus, the brother of Lysippus, is said by Pliny to have been the first to take plaster easts from the face, from which he made wax moulds. He is also said to have aimed at realism in portraits. Surely, if this is told us of Lysistratus, we are justified in supposing that it does not apply to his far more celebrated brother. Lysistratus was probably a younger brother, with less strongly fixed notions of style. But even in his case we can scarcely suppose such a knowledge of auatomy as is displayed in the Apoxyomenos. It was the skin, not that which lies beneath, that he seems to have studied. It is likely enough that in the next generation, the school of Lysippus, carrying on the tendencies of Lysistratus, would profit by the anatomical studies of There are other respects in which they would almost Alexandria. certainly move with the general stream of art. Their perspective would become freer, and the last traces of the two-plane restrictions would disappear.

It seems to me that the path thus laid down would lead the followers of Lysippus to such a work as the Apoxyomenos. And there are other works of a not dissimilar character, which have already by some writers been attributed

to the school of Lysippus.

If we look round our Galleries in order to find parallels, it will not be easy to find any nearer than the so-called Jason of Munich and the Louvre,51 which is really a Hermes fastening his sandal, and the seated Ares of the Ludovisi gallery. I have not been able minutely to examine the details of these works; but in all, the boldness of attitude, the length of limb, and the freedom from the two-plane convention is conspicuous. The Ares statue in particular furnishes an interesting parallel to the Apoxyomenos. Some thirty years ago it was usual to regard it as a copy of an Ares of Scopas. In 1885 Dr. Wolters, an excellent judge, had observed the affirmties of the two statues both in style and in head and had naturally attributed the Ares to the school of Lysippus. Overbeck observed in 1894.00 \*in recent years many writers have set forth considerations which leave no doubt that we have to do with a work made in the Hellenistic age under the influence of the art of Lysippus.' In particular the little figure of Eros, which is associated with this Ares, is of unmistakable Hellenistic type.

It is observable that the proposal of the present paper is to treat the Apoxyomenos as the Ares Ladovisi has been treated by a general consensus of archaeologists: to deny its right immediately to represent a great master, but to leave it as representing the later development of a fourth century

school.

It is a decidedly later stage of such tendencies which is represented by such statues as the wonderful fighter of Agasias in the Louvre. I have

<sup>20</sup> Clarenty, 514, 2048.

<sup>48</sup> Genekichte der grind. Plantik, Ed. 4.

Brunn and Arndt, Denkindler, Pl. LXVII. ii. 17.

Bounteine, p. 452.

already observed how in details, notably in the shape of the foot, this figure carries further the peculiarities of the Apoxyomenos. But we have to do here

with a work of Asiatic origin and celectic style.

The road which leads to the statue of Agusias would seem to have been pursued by Lysistratus, and probably by the sons or pupils of Lysippus, but scarcely by himself. We may perhaps find a hint of this in Pliny's statement that Euthycrates rather attained to the constantia of his father than to his clegantia, and preferred the austerum genus to the jucundum. The phrases are not easy to interpret; but we may judge that Euthycrates was deficient in the charm which was conspicuous in the works of Lysippus, and made up for it by hard study. The works of Euthycrates are of the same kind as those of Lysippus, Alexander, a Herakles, horsemen, quadrigas, and the like Another son or pupil, for Pliny does not distinguish them, Boedas, made an adorums, a figure which some have seen in the 'Praying Boy' of Berlin, which does, in fact, seem to belong to this school.44 A third pupil Daippus, was so far as we know exclusively a sculptor of athletes; we hear of several of his works, among others of a statue called the Peringomenos. Is it possible that our statue, which we call the Apoxyomenos, is really a copy of this? The Plinian date of Daippus, Ol. 121 (B.C. 296) would be rather early for the statue, but by no means impossible. It is not, as we have already seen, by any means purely naturalistic; in some points it connects itself with the fourth century, as in others with the schools of Hellenistic art

What would be the difference between an Apoxyomenos and a Perixyomenos! I have made inquiry of eminent Greek scholars on this point, but they have nothing definite to say. The Apoxyomenos should be a man scraping away the sand like a skin, the Perixyomenos a man scraping himself all round. As the Roman amateurs applied the names to two well-known statues, one would think that there must have been in action or attitude of these statues something to justify the two prepositions,  $\pi\epsilon\rho\epsilon$ - and  $i\pi\epsilon$ -. However that be, it seems clear that the word perixyomenos would well suit the extant figure. At the same time, it must be observed that this attribution is merely suggestive and conjectural, and cannot serve as a basis for any further theories.

As this paper has been rather long and intricate, it may be well here briefly to sum up the conclusions which it reaches. We started from the position that the Agias and the Apoxyomenos cannot both reflect the style of Lysippus; and we saw good reason to think that it is the Agias which has by far the best claim to this position, the Apoxyomenos shewing clear marks of the style of the age succeeding Alexander the Great. We next observed

<sup>\*\*</sup> Prof. Loswy has trained on likenesses, Apoxyomenos and the 'Praying Boy,' Ross, both of poss and of type of head, between the Mitth. Pis. XVI.-XVII.

that the assumed connexion of this latter work with Lysippus had had the effect, first of placing Lysippus at too late a date in the history of Greek sculpture; and second, of confusing the question of the portraiture of Alexander. Finally, it appeared that the Apoxyomenos is probably a copy, not of a work of Lysippus himself, but of one of his pupils, or someone belonging to his school, who worked in the third century.

P. GARDNER.

# A FRAGMENT OF THE 'EDICTUM DIOCLETIANL'

DURING a journey in the spring of last year along the east coast of the Messenian Gulf I took an impression of a fragment of a Latin inscription built into the north wall of the Church of Hagios Taxiarches in the village of Octylus.

The fragment is of white marble and is broken on every side. It measures 47 m, in height and 21 m, in width. The letters measure 013 m.

PROUG STUM CAEFE SUSTUE PELSUSADE ō. PRUISINGU **CETIAMPO** B NTOONSE IC+ CENTENS AUARITIAEMOD 10 3 ICOMMUNIS EDIAMETIAMIPS ANDEMPRO MCOMPULITEXT DIFFICILESITTOT 15 TEMSPECIALIAR CLARHUSTIOR CONSTITU

b = b d = d

[abundantiam rebus] prove[nire. Et quibus semper.]
[studium est in que]stum [trahere etiam beneficia]
[divina ac publi]cae fe[licitatis affluentiam]
[stringere rur]suaqu(e) [annu sterilitate de]
[seminum iac]tibus adq[ne institorum officia]
[nundinar]i; qui sing(u)[li maximis divitiis]
[diffluentes, qua]e etiam p(o)[pulos adfatim expl-]

[ere potuis](s)[e]nt, conse[ctentur peculia et] [laceratr[(i)c(e)[s] centeus[imas persequantur;] [corum] avaritiae mod[um statui, provinci-] 10 ales no](s)[tr]i, communis [humanitatis ratio per-] suadet. S]ed iam etiam ips[as causas, quarum] [necessitas t]andem pro[neere nos diu prolatam] [patientia]m compulit ex(p)[licare debemus ut,] [quamvis] difficile sit totlo orbe avaritiam] 15:

sagvien'tem speciali argumento vel facto] [potins rev]elari, justion [tamen intelligatur] remedii | constitutio, cum intemperatissimi

etes

It forms a fragment of the well-known 'Edictum Diocletiani de pretiis rerum cenalium, a bi-lingual inscription in Latin and Greek, promulgated in 301 A.D., portions of which have been discovered in various parts of the Greek world as well as in Egypt. Two such fragments have been already published in this Journal, one by Mr. W. Loring from Megalopolis (J.H.S. vol. xi. (1890) pp 229 ff.), and another from Corone, on the side of the Messenian Gulf opposite to Octylus, by Mr. M. N. Tod (J.H.S. vol. xxiv. (1904) pp. 195 ff.).

The standard work on this inscription is Monumsen-Blimmer, Der Maximal-tarif des Diocletian (Berlin, 1893). For the Bibliography of recently discovered portions of the Edict I would refer to Mr. Tod's article.

The fragment before us is already known, and forms part of the Introduction to the decree (Mommsen-Blümner, op. sit. pp. 7-8, Il. 23-29). The greater part of the passage in which it occurs is covered by the fragment from Stratonicea (Eski Hissar) in Caria, the largest portion of the Edict yet discovered. Portions of it are also found in the Egyptian fragment, and in the fragment from Platnea.3

The lines, as would naturally be expected, are of different lengths in the different copies. In the Octylus fragment they are searcely half the length of those in the other copies. In correctness the inscription before as contrasts favourably with the only other copy from Greece proper, that from

Plataea, which is full of verbal inaccuracies.

Two other Laconian sites besides Octylus have yielded fragments of the Ediction Dioeletiani. At Gytheinn Foucart in 1868 discovered a fragment of the Greek version, while a Latin fragment was found on the same site by Mr. A. N. Skins in 1892. Secondly at Geronthrae (Geraki) five Greek fragments were found by Le Bas and a sixth by Purgold.6

E C. I. L. III. p. 823.

C.I.L. iii. pp. 804-811; Loake, Transactions of the Royal Society of Literature, 1827, pp. 181-201. It was first discovered by Sherard, British Consul at Smyrna, 1702-1718.

<sup>\*</sup> C.J.L. (ii, pp. 802, 803; a facelimile of a portion of it is given by Hühner, Exemple script. epigr. Zot. | Berlin, 1885).

<sup>\*</sup> C.L.L. III. p. 1913 : Papers of the American School at Athms, v. (1892) pp. 223-244.

<sup>4</sup>th, Mitth. xvii. (1892) p. 156 ff : O. I.L. iii. p. 1915.

<sup>\*</sup> Le Bas-Foucart, nos. 229-232 : C. I. L. Hil. 616-819 and 1925.

While Gytheion was naturally chosen as the most important town on the Laconian Gulf and Geronthrae as the most central city of Eastern Laconia, Oetylus was doubtless chosen because of its central position on the west coast of the Messenian Gulf. The very fact, however, that it was so chosen points to the conclusion that it was still a place of some importance in the fourth century A.D. This is interesting in view of the fact that its name dates back to the Homeric age, and has persisted without change to the present day.

In conclusion I wish to thank Mr. F. Haverfield for kindly sending me u

conjectural arrangement of the text.

EDWARD S. FORSTER.

<sup>7</sup> It is mentioned in the Catalogue of the Ships (II, ii. 585).

<sup>\*</sup> On the Topography and Antiquities of Octylus, see B.S.A. vol. x. p. 160.

#### WRESTLING.

(Continued from p. 31.)

II.

#### [PLATES XI., XII.]

A.—Preliminary Positions, and Various Wrestling Terms.

The attitude adopted by the Greek wrestler before taking hold, as described by Heliodorus, and frequently represented in art, was very similar to that in use at the present day. Taking a firm stand with his feet somewhat apart and knees slightly bent, rounding (γυρώσας) his back and



FIG. 1.—PANATHENATO AMPHORA. B.M. B 609.

shoulders, his neck advanced but pressed down into his shoulder blades, and his waist drawn in  $(\sigma\phi\eta\kappa\omega\sigma\alpha\varsigma)$ , he tried to avoid giving any opening  $(\lambda\alpha\beta\eta)$  himself, while his outstretched hands were ready to seize any opportunity offered by his opponent.

Asthlop, z. 81; cp. Ovid Met. iz. 33, Lucan Phore, iv. 617, Stat. Theb. vi. 850. The position is shown in an Attic grave relief of Agacles, Schreiber Attas xxi. 1; in vasa-paintings, Panofks Bilder and Leben i. 7, Arch. Zeit.

<sup>1878; 11;</sup> and above all in the two well known bronzes at Naples; formerly described as diskoboloi, but really representing wrestling boye ready for the contest;

Various methods of attack are enumerated by Plutarch. Symp. ii. 4, μόνους δὲ τοὺς παλαιστάς ὁρῶμευ ἀλλήλους ἀγκαλιζομένους καὶ περιλαμβάνουτας καὶ τὰ πλεῖστα τῶν ἀγωνισμάτων ἐμβολαί, παρεμβολαί, συστάσεις, παραθέσεις συνάγουσιν αὐτοὺς καὶ ἀναμύγνυνται ἀλλήλοις. These terms, arranged in contrasted pairs, denote the various positions and movements of wrestlers before they take hold. σύστασις denotes the position frequently depicted on vases (Figs. I, 3, 7, 9, 11, 12, 13, Pl. XII. c), where the opponents stand square to one another and prepare to take hold somewhat in the style of Westmorland and Cumberland wrestlers, 'leaning against each other like gable rafters of a house,' or 'butting against each other with their foreheads like rams,' or 'resting their heads on each other's



Fig. 2.—Thusaus AND CERCYON. R.-F. KYLIN. B.M. E.84.

shoulders. \* In the position described as  $\pi a \rho i \theta \epsilon \sigma \iota s$  the wrestler instead of facing his opponent squarely turns sideways to him in order to obtain a hold from the side rather than from the front. The attitude and the consequent hold we shall find represented especially in the pictures of Theseus and

<sup>2</sup> Homer II. axiii, 712.

<sup>&</sup>lt;sup>3</sup> Lucian Amedorais I. M. de Ridder, Dar. Sagi. a.c. lucta, takes Lucian's words seriously and draws a thrilling picture of a 'batting-match'! 'L'une des manouvres favorites' be says 'était le heart des fronts l'un contre l'antre, et les deux tôtes une fois en contacte le pesés graduelle de la première sur la seconda.' Hence he concludes l'adversaire le moins résistant se trouvait repidement represe sur le

don.' What would Lurisin have said to such a comment on his words !

Philostrat. Fit. Soph. p. 225 & Horigaes τροσήλθε το Διουσεία και άντερείακε του Σμου Καπερ οΙ τής αναδιαίας πάλπε Ιμβιβίζοντες κ.τ.λ. σταδιαίας here is evidently used in the sense of perhaps in mistake for σταδιαίες, and minus not, as Martin Faber says, "belonging to the stadium" but "upright." For the position τ. Noel des Vergees, L'Eleverie travii.

Cercyon (Fig. 2), and it is clearly indicated in the Oxyrhynchus papyrus the first intelligible order of which is παράθες το μέσον και έκ κεφαλής δεξιά πλέξον. Turn your body sideways to your opponent and grip him by the

head with your right hand."

A similar distinction exists between έμβολή and παρεμβολή, terms which denote movements rather than positions. In wrestling βάλλω and its compounds seem always to express some movement of attack either with arm or leg. For example, in the papyrus we find brogake the befrae of an arm movement, and Bake wood of a leg movement. In the epigram quoted in my last article in Banka appears to be used of a direct attack where one wrestler seizes the other by the body and tries to force him backwards, and the same word is used in Lucian's Asimus? in a context which perhaps suggests a leg movement. The chip described in the last lines of the papyrus seems very much like the modern ' hank,' in which one wrestler trips the other by hooking his leg round the inside of his opponent's leg, or Bake πάδα σύ διάλαβε σύ ἐπιβάς ἀνάκλα σύ προστάς ἀνάνευε. The movements of the two pupils whom we will for convenience call A and B are as follows: -A advances his leg to trip B; B seizes A round the waist; A throwing his weight upon B tries to force him backwards; B resists by leaning forward with all his weight. If we can compare this passage with the following description of the hank, there can be no doubt of the correctness of our interpretation. 'Immediately the hold is taken, the wrestler clicks his opponent's right leg with his left and pulls him backwards, generally falling on him with his weight. The only way to stop the hank is to lean forward, obtain a better hold, and hitch the aggressor over,"8

If  $\hat{\epsilon}\mu\beta\alpha\lambda\hat{\eta}$  means an attack from the front,  $\pi ap\epsilon\mu\beta\alpha\lambda\hat{\eta}$  means an attack from the side. In Lucian's Oeypos it clearly denotes a leg movement. Ocypus, who is suffering from gout but will not acknowledge it, among

various excuses for his lameness says

ούκουν παλαίων ώς θέλων παρεμβολήν βαλείν έπλήγην—1. 60.

I burt my foot trying the  $\pi a \rho \epsilon \mu \beta \delta \lambda \dot{\eta}$ . On the analogy of  $\dot{\epsilon} \mu \beta \delta \lambda \dot{\eta}$  this should mean the back-heel, a method of tripping an opponent by placing the foot behind his heel from the outside.

Another compound, διαβάλλω, which will be discussed later, appears to denote throwing the leg or arm across an opponent, and προσβολή according to Hesychius was a general term expressing τῶν ἀθλητῶν ἡ συναφή καὶ ἡ κατογὴ καὶ ἡ ὁρμή.

Before we proceed to discuss in detail the various holds and throws it will be convenient to notice briefly certain common terms which occur constantly in wrestling descriptions but are of too general use to be considered technical terms. For the most part they explain themselves.

<sup>2</sup> Oc. Pop. iii. 406.

P. 15 of this vol. Auth. Pol. xii. 206.

C. 10 de Anna aplyye eet arandatas in-

Behle en divere.

Mr. Walter Armstrong, Wrestless (All England Series), p. 48.

Such words are έλκειν, ώθείν, σπρέφειν, λυγίζειν, άγχειν, ûποπνίγειν, dvarpéweiv. "Exacts is used of wrestlers who having obtained a grip try to tighten it by drawing their opponents towards them, a movement which is so essential to all 'upright wrestling' that ἐλκηδον μάχεσθαι is used as a synonym for walater." For the technical use of to electe to denote seizing the opponent's foot there is as I have already shown no evidence, lo Similarly &Bew merely denotes the opposite process of throwing one's weight upon an opponent in order to make him lose his balance backwards, and denotes nothing which is not allowed in modern wrestling. στρέφειν is used technically in the phrase ἔδραν στρέφειν, " but otherwise means simply ' to turn round and is used of twisting an opponent round, twisting his arm back or turning oneself round. Auylieuv is a general term for to twist or wrench. άγχειν and άποπνίγειν denote practices which belong rather to the pankration than to true wrestling, throttling or squeezing the breath out of an opponent being more useful for forcing him to acknowledge defeat than for throwing him. avarpeneus again means merely to upset, and there is no evidence for assigning it to any particular throw,

There are of course many purely technical terms and their interpretation is often very difficult. It seems better therefore to start by examining the evidence of the monuments, explaining as far as possible by this means the various technicalities as they occur. A convenient classification is suggested by Plato's definition of ôρθη πάλη as consisting ἀπ' αὐχένων και χειρῶν και πλευρῶν ἐξειλήσεως. I propose to take the various holds in this order and in connexion with them to consider where possible the throws to which

they lead.

### B. Hand- and Armholds.

In endeavouring to obtain a hold, wrestlers continually seize one another by the wrist. This action, which is probably denoted by  $\delta\rho\hat{u}a\sigma e\nu^{13}$  is frequently represented on vases and coins. Often it is a purely defensive movement, to prevent an opponent from obtaining a neck- or bodyhold. And so we sometimes see a pair of wrestlers each holding the other by the wrist. Such symmetrical arrangements appealed to the less ambitious vase painter, and are therefore frequent on vases of the Panathenaic type. Sometimes one wrestler holds both his opponent's wrists. M. de Ridder gives a highly imaginative account of such a grip: 'Une simple pression

<sup>\*</sup> Hesiod dowis 302, οι δ έμάχωντο πόξ τε και έλκηδόν τ τρ. Pind. New. iv. 154.

<sup>10</sup> P. 28 of this volume.

<sup>11</sup> y in/nx p. 287.

in Log. 7968.

ix Pollux cites it as a wreafling term. Op. Theoryit, xxv, 145.

A good filustration of this may be seen in an amphora of Nicosthenes at Vienna published

in the Porlegellatter 1890-1, iv. 3 where the left-hand westler seizes with his right hand the left wrist of his apponent who is stooping down as if to seize him round the waist.

<sup>&</sup>lt;sup>16</sup> Mon. d. I. ii, 23; Mus. Grey. II. xvi. 2, a; Munich 495 (Pl. XII. e).

<sup>&</sup>lt;sup>10</sup> Mon. d. I. at 25, an Kirusean wall-painting from the Tomba degli Anguri ; Garh. A. F. 271, r.-f. kylix in Brusselz.

exercée sur les bras les courbait en arrière et amenait sans résistance possible la chute du corps.' This grip was of course merely momentary, and often only defensive; it could be broken at any moment; and the wrestler must have been indeed a novice who succumbed so easily to this 'simple pression.' A more effective hold was obtained by seizing an opponent's arm with both hands, one hand seizing the wrist, the other gripping him at the elbow, or under the armpit (Figs. 3, 7, 9). This seems to have been a very favourite hold, if we may judge from the frequency with which it is represented; and it led to one very effective fall, of which we have also many illustrations. Rapidly turning his back on his opponent, the wrestler draws his arm over his shoulder, using it as a lever by which to throw him clean over his bead. The throw, well known in modern wrestling as 'the flying mare,' is probably what Lucian describes as els vivos ἀναβαστάσαι. As has been already

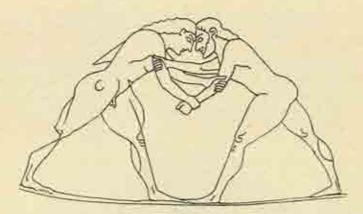


Fig. 3.—Americanas Americas. Bennis, (From Mon. d. J. v. 45.)

mentioned, at the moment of executing it, the wrestler stoops forward, sinking sometimes on one knee, or both. On an Etruscan wall-painting we see the beginning of the throw. The prospective victor strides forward, having swung his opponent off his feet, with his right hand he still grasps his wrist, his left hand he has transferred from his arm to the neck, in order to complete the throw. In another wall-painting, the victor has sunk on both knees, having turned his opponent upside down. The same crouching attitude is seen on a kylix in the British Museum, E 94 (Fig. 4), but the defeated wrestler is here not so high. In these two cases, the stoop of the legs seems likely to have been exaggerated for artistic reasons to diminish the height of the group. In other examples I fancy it denotes the pankration, or practice for the pankration. Certainly this is true of the

<sup>&</sup>lt;sup>17</sup> Mon. d. I. x. 4, Amphiarans vase; Micali Mon. xli.; B.M. Visses B 48, 191, 195; coins of Aspendus. Cp. Armstrong Wrestling, p. 56.

<sup>&</sup>quot; P. 28 of this volume.

<sup>&</sup>lt;sup>38</sup> Dar.-Sagl. 4624 = Dennis Cities and Cometeries of Elevaria ii. 333.

P Dennis op. cit. ii. 343 = Krause xii. b., 39b.

Baltimore kylix, published by Hartwig, Pt. LXIV., and probably also of the two groups of the kylix from the Bibliothèque Nationale, also published by him, Pls. XV. 2 and XVI. In the interior (Fig. 5), the victor is kneeling on



Fig 4.-R.F. Kvarx B.M. E 94.

his right knee; 22 he has let go with his right hand, and his opponent, left unsupported, is about to fall helplessly on his back. On the exterior we have the same scene slightly more advanced. The vase is unfortunately damaged; but enough is left to show us the wonderfully life-like vigour of



Fig. 5. R.-F. Kylax. Pania (After Hartwig, Melaterschaf, xv. 2.)

the drawing, and to make us regret that few vase painters attempted so difficult a subject.

It is interesting to find this same motive occurring on a British Museum

<sup>&</sup>lt;sup>11</sup> Cp. Dennis op. att. 323 (= Krause xii.b, 395), 327.

amphora B 193 (Fig. 6), representing the struggle between Heracles and the Nemean lion. That the types of the palaestra should be borrowed to represent his struggle with Antaeus is natural; but the persistency of the same types in his fight with the Nemean lion is so remarkable a proof of the influence of the palaestra on art, that I may be pardoned for introducing into this article frequent illustrations of this contest. The result of the throw is seen on a black-figured vase reproduced by Gerhard, A. V. 94, where the lion is lying on its back, and Heracles holding it down with one hand, proceeds to finish it off with his club. This conclusion naturally suggests the pankration, and proves clearly that a throw which thus put the man thrown at the morey of his opponent must have been as useful to the pankratiast as



Fig. 6.-B.F AMPROPA. B.M. B 193

to the wrestler. In the present day 'the flying mare 'is a favourite throw, not only in systems which require a clean throw on the back, but also in those which allow ground wrestling.

Beturning to the hold which leads to this throw, we find several methods of meeting it represented. On the Amphiaraus vase <sup>33</sup> (Fig. 3) Peleus has seized with both hands the left arm of Hippaleimus and the latter in reply grips Peleus under the right arm-pit with his disengaged right hand. The result is to weaken Peleus' grip and to prevent him from turning round and hoisting Hippaleimus over his shoulder. This scene is repeated on a hydria representing the contest of Peleus and Thetis, <sup>23</sup> and on the neck of a black-

may be compared with a relief on a votive tablet from the Accepton published in the Ath. Mitth. 1887, Pl. III. representing the lime lying huddled up on its back with Heracles bending over it. The motives are identical.

Mr. Norton in the American Journal of Archaeology, 1806, p. 10 suggests that the artist borrowed this bles from the representation of Herneles and the Erymouthian boar, on the cup of Eurysthems. It would perhaps be more correct to say that the type in both cases is suggested by the pulsastra scheme.

Similarly the scene on the lialtimore kylix

<sup>14</sup> Mond l. 2 4: 5.

P Minali, Mon. all.

figured B.M. amphora, B 295 (Fig. 7), we see a similar defence when the attack is made on the right arm. A Berlin amphora by Andokides (Fig. 8) shows another style of counter. The wrestler to the left grasps his opponent's left wrist, but the latter by running quickly forward has rendered



Fig. 7. -B.-F. Aurmona. B.M. B 295. (After Muses Blucas.)

useless the right hand which should have gripped his upper arm and passing his own right hand behind his adversary's back grasps his right arm just below the elbow. On a B.M. pelike, B 191, the wrestler attacked replies by placing his disengaged hand on his opponent's neck.<sup>25</sup> In all these

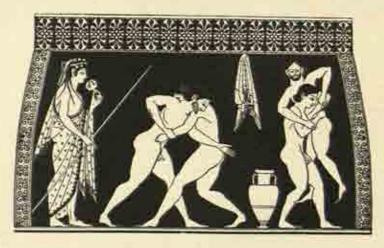


Fig. 8.—R.-F. Amphona. Benil's (From American Journal of Archaeology,)

cases the object seems to be to prevent the opponent from turning round or to weaken his grip. The latter object is noticeable on the coins of Aspendus."

EAVYA MENETVE which occurs on one of these coins is discussed. The interpretation of these words as \$\$\times\$ the interpretation of these words as \$\$\times\$ the wrighter), sover\(\delta\) (the stayor) is attractive, but Mr. G. F. Hill to whom I am indebted for the illustrations from the coins in the B.M. tells me that the summs are probably those of a magistrate or magistrates.

<sup>20</sup> Muses Blame ii. - Krauss aii. 34.

Berl, Vas. 2159; Gerhard Trinkschale L. xx.; American Journal of Archaeology, 1896, p. 11.

Cp. Bull. Nap. Nouv. Sér. V. ± ; Berl. Fun. 5985.

<sup>#</sup> B.M.C. Lysis pp. 95-101, 248, exix.; ep. Head, H.N. p. 582, where the inseription

where the left-hand wrestler is represented grasping with both hands his opponent's left arm, while the latter with his right hand grasps his right wrist or his left upper arm. On the coin selected for illustration we may remark the manner in which the right-hand wrestler's wrist hangs helplessly down as if rendered powerless by the grip. Perhaps the Greeks like the Japanese may have studied the art of so gripping a limb as to render it useless, but such tricks belonged rather to the pankration than to true wrestling. Thus we hear of a Sicilian wrestler, Leontiscus, who overcame his



Fro. 9 .- WRESTEING TYPES ON COINS IN B.M.

or, &, c. Aspendus lifth and fourth century.

of, Heraeles in Lucania fourth esning.

s, f. Symenso circa 400 B.C.

o. Alexandria, Antoniana Pina.

opponents by seizing and breaking their fingers and so forcing them to the ground. He was not, says Pausanias, an adept at throwing his adversary and his tactics resembled those of Sostratus, the pankratiast of Sicyon, who had thereby gained the soubriquet of Acrochersites. From the words of Pausanias we may conclude that such practices were exceptional and were not considered appropriate to the art of wrestling, the object of which was to throw the opponent. It

<sup>&</sup>lt;sup>20</sup> Pana vi. 4. 2 καὶ γὰρ τὸν Λευτίσκον καταβαλεϊν οἰκ ἐπίστασθαι τοὺς παλαίστας, εκκῶν δὲ αὐτύν κλώντα τοὺς δικτύλους.

<sup>&</sup>lt;sup>31</sup> Galon describes the art of wrestling as καββαλική.

### C.-Neckholds, τραχηλισμός.

The neck is an obvious and effective place by which to seize an opponent and strength of neck is essential to a wrestler." Pindar in a much disputed passage of the seventh Nemean ode speaks of the wrestler's avveva kai σθένος άδιαυτον and Xenophon describing the thorough training of the Spartans says that they exercise alike legs and hands and neck. In the Equites of Aristophanes Demos tells the sansage-seller to grease his neck that he may be able to escape from Cleon's grip." The technical word for obtaining a neckhold was τραχηλίζειν," which has also acquired the more general meanings of 'to wrestle' or 'to throw.' Neckholds must have been frequently employed in the ground wrestling of the pankration, but chiefly as a means of strangling an opponent, and the more expressive terms agreer and aποπνίγειν were used for this operation, while τραγηλίζειν was confined to upright wrestling, the object of which was to throw the opponent.36 This is evident from a passage in Lucian's Laciphanes, c. 5, where describing the athletes practising he says: ὁ μέν τις ἀκρογειρισμώ, ὁ ἔἐ τραγηλισμώ και όρθη πάλη έχρητο. Here ακρογειρισμός and τραχηλισμός are contrasted as typical respectively of the pankratiast and the wrestler. Further a story told by Plutarch proves that the object of τραχηλισμός was to throw the apponent έν χειραψία περικρούοντος του προστραχηλίζοντος και κατααπώντος έπι την γην έπειδη τω σωματι έλείπετο ο προσπεσών έδακε τον Βραγίονα και ο έτερος είπε, Δάκνεις & Λάκων, δισπερ αι γυναίκες ού μέν ουν, είπεν άτερος, άλλ' ώσπερ οι λέοντες. "

This story is well illustrated and may even have been suggested by the representations in art of Heracles wrestling with the Nemean lion. On many black-figured vases 38 we see the lion standing upright on its hind legs and wrestling with Heracles, who with his left hand grasps the animal round the neck and seizes its lower jaw, and with his right seizes its upper jaw. The lion has tried to break Heracles grip round its neck by using its teeth, and the hero by seizing and forcing open its jaws prevents it from biting. In this and other varieties of the standing type Heracles is usually described as strangling the lion. The description appears to me hardly accurate. With the possible exception of the type where Heracles has the lion's head in chancery, he is not in a position in which he can strangle the animal, but is

<sup>=</sup> Philostral, 17pm, 35.

<sup>#</sup> Lat. Kep. v. b.

<sup># 1 491</sup> SunSale and SunSale in this passage and in lines 262, 498 must clearly donote some arre of makingle.

Classification of Rhodes according to Africanus won his victories in this way: τραχηλίζων ἐπελάμδων For a surve general rue of the word, ep. Pluto Jonat. 182c, d, Plut. Julou. 33.

<sup>&</sup>lt;sup>18</sup> Cp. Philo περί όνείρων 163, παλαίσμαση πολογράπειε και πολομηχέρεια εδχενίζωντει έκ.

spanjakisan sai sarafhárreis spás sá Idabas.

<sup>&</sup>quot; Apophilogue. Lac. 23 to, 44 In his life of Alcihiades v. 2 he tells the same story of him. In γάρ πρ παλαίνει πιεζούμεναι υπέρ των με πεσείε άναγαγών πρός το απόμα τα Καματα πού πιεζούστοι είδε τα δε Επαραγείε και χείραι. Biting was forbidden both in wrestling and in the pankration, but was allowed by the Sparians in the latter.

<sup>&</sup>lt;sup>88</sup> E.g. B.M. Four B 232, 233, 621 ; Geth. A.F. 74, 93, 256.

merely wrestling with it and trying to throw it to the ground, the attitudes and grips being borrowed directly from the wrestling ring. Having thrown the lion be can either strangle it or use his sword or club. That his object is to throw the lion is clear from a R.M. oinochoe, B 621. (Fig. 10). Here we see Heracles with his left arm round the lion's neck and his right hand seizing its jaw, at the same time turning round and twisting the lion off its feet. If in imagination we continue the action, Heracles and the lion will fall together in the position represented on a relief from Lamptrae published in the Ath. Mitth. 1887, Pl. III which shows Heracles strangling the lion on the ground.

The monuments exhibit several varieties of neckhold. Sometimes a



F10. 10. -B. F. Olyochon, B.M. B 621.

wrestler seizes his opponent's wrist with one hand, and his neck with the other. The best example of this occurs on a red-figured krater in the Ashmolean (Fig. 11). The wrestler so attacked defends himself by seizing the other under the left arm-pit with his left hand. An interesting feature of this vase is the figure of winged Victory seated upon a pillar watching the contest. The same method of attack and defence occurs on an Etrascan mirror representing the contest of Pelcus and Atalanta. A different method of defence is seen on the B.M. amphora, B 295 (Fig. 12) the wrestler on the left with his left hand grasping his opponent's right arm, the arm which is seizing

Emil Reisch well describes such a type as son Ringhampfmativ der Palsetra eingeführt/ er as a 'Knestgriff der aρθά πέλη,' stik. Hetth, rii. 1887, p. 119 ap.

H.S .- VOL XXV.

<sup>\*</sup> The vace is unsigmed, but Mr. R. B. Walters tells me that it is undoubtedly the work of Nicosthones.

<sup>&</sup>quot; Gerh. Elevati. Sproyel 224, Dat. Sagt. 592.

his neck. We may notice that he grasps it at one of the weakest points just below the effow. A third means of defence is to seize the opponent's neck. M. de Ridder would add yet another, viz., grasping the opponent's thigh, but there is little evidence for such a view. On the B.M. kylix E 94 which he quotes, as on other vases showing the beginnings of a wrestling match, the wrestlers hold their bands to the front and slightly below the waist; but so do wrestlers of the present day in the Graeco-Roman style where no hold is allowed below the waist.

This type seems to be particularly connected with the match between Pelcus and Atalanta, which we must remember was a genuine wrestling match, and took place at the funeral games of Pelias. A most interesting



Ym. (1.-R.-F. Krayen, Oxform (From Calalogue of Ashmuleen Museum, Pl. XIV.)

representation of it is on a B.-F. amphora at Munich (Fig. 13).<sup>43</sup> Peleus has apparently tried to seize Atalanta's right arm with both hands but the latter moving forward seizes him by the back of the neck very much in the style of a modern wrestler. To the left stands the familiar umpire with his forked rod.

The same motive is frequently employed in the case of the Nemean lion, Heracles having his left arm round the animal's neck and with his right hand grasping its left paw (Fig. 14).\*\* Two other varieties of neckhold are also furnished by this context. A St. Petersburg bronze \*\* represents an infant

of Jahn 594. Guth, of F. 477.

<sup>&</sup>quot; E.g. B.M. Vosco B 284; Goth. A.V. 198

<sup>&</sup>quot; Mon at L vi. vii 69, 2a.

Heracles and the lion firmly clasping one another like two Cumberland wrestlers and a kylix of Ergotimus in Berlin 40 shows us Heracles with both hands



Fig. 12.—B.-F. Amphora. B.M. B 205. (After Musee Blance.)

clasped round the lion's neck. On a Munich amphora (Fig. 15) at the hero employs the latter grip against Antaeus, who sinking on one knee grabs

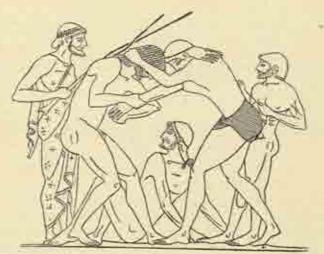


FIG. 13.—PELEUS AND ATALANYA. B.-F. AMPRORA. MUNIOH. (After Gerhard & F.)

vainly at his conqueror's foot. The interlocking of the hands is noticeable as being the same as that commonly employed by our Westmorland and

<sup>&</sup>lt;sup>46</sup> Gerh. A.F. 238, op. B.M. Poss B 232, S Jahn S | Gerh. A.F. 114, 235, 621.

Cumberland wrestlers; the hands are turned so that the palms face one another and the fingers are booked together. The vase further illustrates



Fm. 14.-B.-F. AMPRODA. B.M. B 234.

the tendency which I have already remarked in art to represent Heracles and Theseus employing the holds of the wrestler rather than of the



Fro. 15,-B.-F. Astronoua. Municit. (After Gerhard; at. P.)

pankratiust. Here again if we suppose Heracles to complete the throw, both will fall together in the position shown on various vases which represent

the struggle on the ground. A curious variety of neckhold occurs on a psykter of Euthymides depicting Theseus and Cercyon. Theseus having somehow clasped his arms over Cercyon's left shoulder and under his right arm-pit has him completely at his mercy and swings him off his feet. How he obtained such a hold is not clear; we can only suppose that Cercyon after his usual style rushed at Theseus with his head down as he does on the Euphronios kylix of where Theseus has doubled his head up under his arm. But these two vases are exceptions to the usual treatment of the scene which will be discussed later.

Perhaps we should mention here another lion type where Heracles grips the lion with his right arm over and his left under its neck. At first sight it appears that Heracles is really strangling the brute, but a comparison of the varieties of the type convinces me that we have here merely a variation of a familiar bodyhold which will be discussed below and that Heracles is really lifting the animal off its feet in order to swing it to the ground. Indeed a b.-f. amphora in Vienna 31 actually represents him in the act of swinging the lion. Such a lift, which would be impossible in the case of a human adversary, is rendered practicable only by the size and weight of the lion's neck and head, and I therefore class it with the bodyholds to be described in the next section. The type is distinguished by the fact that the lion's back is always more or less rounded, and the group is therefore particularly suitable for the circular spaces of coins. On a coin of Heraclea in Lucania (Fig. 9) we see Heracles on the point of swinging the lion, in the B.M. bronze 672 (Pl. XI. a). he has obtained the grip but is still stooping slightly. To obtain the grip it is necessary of course to stoop and this position is clearly shown on the B.M. kylix E 104 (Fig. 16) and still more so on the beautiful little gold coins of Syracuse (Fig. 9c. f), where Heracles is represented sometimes on one knee sometimes on both as he lifts the animal off its feet. A small bronze ornament from the Farges collection, published by Reinach, shows Heracles standing sideways to the lion preparing with this same grip to heave him over. In some later monuments he certainly does appear to be strangling the lion,33 but a consideration of the whole series seems to prove that the original motive is that of lifting and swinging the lion and is borrowed directly from wrestling and that the strangling is a later addition borrowed from a totally distinct type.

Of the throws to which the grips described above lead we have but little evidence. Doubtless tripping with the legs was freely employed with these holds but the only possible illustration of such a practice is the group of bronzes to be described below where the hold is obtained from behind. There can be no doubt also that the movement already noticed as \(\tilde{\delta}\rho ar

<sup>\*\*</sup> R. f. krater of Euphronius, Klein Euphrosius p. 118 s. r.-f. kylin J.H.S. z. Pl. L.

Ann. d. J. 1879, O. Klein op. ed. p. 205; Schreiber Allas xxiv. 10.

<sup>50</sup> Klein ep. cit. p. 194.

<sup>#</sup> Laborde L 93.

<sup>&</sup>lt;sup>36</sup> Répertoire de la Statonire 249 ; Coll. Farque 170. a.

E.g. a relief in Campana, Antiche Opere in Plantica unii.

<sup>54</sup> Pp. 290, 291 Figs. 25, 26.

στρίφειν, or turning the back to the opponent, was also employed so as to twist his neck and so twist him off his feet.<sup>50</sup> This movement we have seen depicted in the lion group (Fig. 10); it is more fully shown on a Panathenaic vase published in Most. d. I. i. 22, the whereabouts of which I have



Fin. 16.-R. F. KYLLY. R.M. E 104. (From Murray's Designs from Greek Fases in B.M.)

unfortunately failed to discover. The drawing is far from satisfactory but it seems to represent a sort of cross-buttock with a neckhold.

The British Museum has an Etrascan bronze representing Peleus wrestling with Atalanta, each holding the other's neck. The figures are both arranged sideways so as to face the spectator. The type is not uncommon on the lids of Etruscan lebetes, but the wrestling scheme is so symmetrical, and so manifestly adapted to the practical requirements of a handle that it is useless for our present purpose.

## D.—Bodyholds.

As in the case of neckholds, so here we find the preliminary stage represented where the wrestlers have one hand round each other's backs, and are trying with the other to complete their hold. Sometimes as on a redfigured kylix <sup>57</sup> published by Noel des Vergers their other hands are dis-

Philostratus Gym, 35 speaks of the wrestler's neck courrdness and overBandarov ord vils value.

M. B.M. Bronnes 748; cp. ib. 639, 744, 746; Babelon Bronnes du Cabinet des Medmilles 985;

Catalogue Formum Collection 141, an interesting variety, the two wreatlers with crossed arms grasping each other by the forearm.

<sup>&</sup>quot; L'Biruris xxxxii.

engaged, sometimes as on the B.M. Panathenaic vase B 603 (Fig. 1) one wrestler grasps the other's wrist. In both cases the wrestlers stand square to one another in the position of σύστασις which is excellently described by Ovid in his account of the struggle between Hercules and Achelous.

Inque statu stetimus, certi non cedere : eratque Cum pede pes junctus, totoque ego pectore promus Et digitos digitis, et frontem fronte premebam.—Met. ix. 43.

The sideways position or παράθεσες with a bodyhold is seen on the Theseus kylix in the British Museum E 84 (Fig. 2). Cercyon rushes forward as if by sheer bulk to bear down Theseus, but the latter, moving to the right to avoid the onset, slips his left arm round Cercyon's body just under the right arm-pit. The hold is not completed, but Cercyon 'mole ruit sua,' and Theseus will surely hasten his fall by some click with the left leg, perhaps by hooking his left leg round Cercyon's right and with a turn to the left throwing him backwards, or else by throwing him across his thigh. A very similar group representing Heracles wrestling with Antaeus occurs on the frieze of the theatre at Delphi. We may further compare the quaintly drawn scene on the neck of a Nicosthenes amphora at Vienna. There are two wrestling



FIG. 17.-R.-F. KYLIX. B.M. E 95.

groups on this vase. In the first one of the wrestlers is stooping down as if to seize his opponent round the waist, but the other frustrates his attempt by seizing his left wrist and forcing his neck down. In the second group one wrestler has secured a firm hold round the other's body, and lifting him to the

left prepares to swing him to the ground,

Another B.M. kylix E 95 (Fig. 17) shows a most interesting grip. The wrestler to the left has grasped his opponent with his right hand under the right arm-pit, and turning him sideways has somehow succeeded in passing his left arm round his back, thus rendering useless his opponent's right arm, which hangs idly in front of his body. He seems to have obtained this grip by seizing his opponent's right arm with both hands, the wrist with his left, the upper arm with his right. By sharply pulling the arm towards him he must have turned him sideways and then releasing the grip of his left hand be was enabled to take the fresh hold round his back. The next stage according to the description in the catalogue will be that represented in

<sup>24</sup> Honrolla Fouilles de Delphes iv. 76.

<sup>\*</sup> Vienna 232 Vorlegeblütter, 1890-1, iv. 3.

E 94 b (Fig. 4). This can hardly be correct: this throw, which we have described above, follows directly from the armhold with both hands and so does the position we are discussing, but it is a totally distinct development of the original hold, not an intermediate position, and the throw must have been completed by some form of tripping. Unfortunately the lower part of the figures is wanting and it is idle to attempt a more definite explanation.

A very effective bodyhold is obtained by seizing the opponent round the waist with both hands: he can then be lifted off his feet and swung to the ground. The hold may be obtained from the front, from behind, or from the side, and all three varieties occur constantly on the monuments. There are various technical terms for such holds, περιτιθέναι, διαλαμβάνειν, μεσοφέρδειν, μεσοφέρδην, and the effectiveness of the grip is proved by the proverbial use of the expression μέσον έχειν. 60 μεσοφέρδειν 61 and its cognite forms are known only from lexicographers and are explained by Hesychius as μεσολαβείν. περιτιθέναι and διαλαμβάνειν 45 both occur in the Oxyrhynchus papyrus and the context enables us to distinguish them. Both passages have been noticed above.54 In the opening lines a wrestler is instructed to take a sideways position to the left and with his right arm seize his opponent by the head. The latter receives the order σύ περίθες. He is to grip his adversary by the body, passing his right arm across his back and his left arm under his stomach. These movements are clearly represented on the Theseus and Cercyon vases, save that Cercyon has lost his neckhold and his hand has slipped down on to the shoulders of Theseus (Figs. 21, 22). They are shown still more clearly because at an earlier stage on a black-figured amphora from Berlin, for a drawing of which I am indebted to Dr. Zahn." περιτιθέναι will mean then to encircle an opponent's waist by passing one arm across his back and the other under his stomach. διαλαμβάνειν as is clear from the passage in the papyrus must mean to seize a person by the waist by placing one arm round each side so as to clusp hands behind his back, or, if the hold is taken from behind, before his stomach. This explanation agrees with the first of the two meanings given in Bekker's Auccdota, 36. 3 διαλαβείν δύο σημαίνει τὸ ἐκατέρωθέν τινος λαβέσθαι και το είς δύο ή πλέονα διαχωρίσαι ή διελείν. Similarly in Aristophanes Eccles, 1090 the scholiast explains διαλελημμένου as μέσου είλημμένου.

The bodyhold from the front is difficult to obtain, but extremely effective. It was the hold by which Hackenschmidt, the winter before last, won his sensational victory over Madrali. Cereyon is sometimes represented attempting to obtain this hold in a claimsy barbarous fashion. Putting his head down he rushes blindly at Theseus with the result that the latter obtains a wakasous adversor. The Euphronius kylix and the Euthymides psykter have been mentioned above 63. The same result is depicted on the

<sup>40</sup> Armtoph. Eq. 387, Acharn. 571.

<sup>&</sup>quot; Mesychius, Photims,

<sup>#</sup> Cp. Pint dulen 33.

at je 265.

or Borl. Vas 1716. The magadeous is most marked in this group. A second group on the same wass is of the ordinary armhold type. 85 P. 277.

Chachrylion kylix at Florence (Fig. 18) where Theseus instead of obtaining a neckhold has forced Cereyon's head down and with both arms clasped under his stomach can easily heave him over. With this hold we may compare the hold of Heracles round the lion's neck, as shown on a coin of Heraclea (Fig. 9d), or better still, on the B.M. kylix E 104 (Fig. 16). Another danger of attempting such a hold classify is illustrated by the two groups given in Pl. XII., a, b, from a b.-f amphora at Munich. the drawings of which have been kindly supplied to me by Professor Furtwangler. In both cases we see a bearded athlete rushing blindly on to seize the other by the waist. The upper group is merely preliminary: in the lower group his opponent, prevented from obtaining the hold for the heave by the grip on his right wrist, seems to be leaning all his weight upon him with the object of forcing

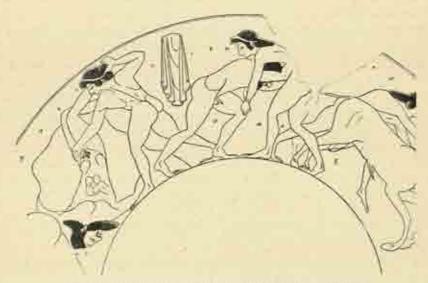


Fig. 18.—Thereto and Cardyon, R.-P. Kylar, Florence, (After Harrissu and Maccoll, Pl. X.)

him to the ground. This fate actually befalls Antaeus as he catches at the leg of Heracles, and a black-figured vase shows him fallen, with Heracles pressing him down upon the ground with one hand and striking at him with the other. Antaeus and Cercyon both pay the penalty for their clumsiness. On the Berlin amphora reproduced above (Fig. 8) we see the same hold successfully secured. A young wrestler has seized by the waist and lifted off his feet a bearded athlete who vainly endeavours to break his hold.

More frequently we see the hold obtained from behind. For the

his opponent's nack white Apollo with bla left strives to break the grip. Johen 1892, p. 209.

<sup>&</sup>quot;Harrison and MacCall, Greek Pass Patiation, Pl. X. Klein p. 1942. To those may perhaps be added a fragment of a vase in the Leavis vary similar in style to the Euphronius wase which Wetnicke considers to improvent Thesens and Apollo. The former has his right arm round.

<sup>&</sup>quot; Jahn 1836.

<sup>\*\*</sup> Naples 2319, Millingen, Pt. XXXI, Klein lot, cit.

illustration in Pl XII. c. from a b.-f. amphora in Munich,<sup>60</sup> I am again indebted to the kindness of Professor Furtwangler. The stiffness and lifelessness of the group is characteristic of this type on the vases, a characteristic which is the more remarkable by contrast with the vigorous representation of the same type on coins and gems. We may notice however that the wrestler lifted off the ground has in defence hooked his right foot round his opponent's leg. Similar scenes occur on a small amphora at Naples,<sup>10</sup> and on a black-figured Berlin amphora reproduced very inadequately by Krause,<sup>21</sup> a drawing of which I have received from Dr. Zahn. It represents a fat-bellied bearded wrestler lifting a youth who in an ineffectual manner strives to loosen his grip. In this and in the Munich vase the hands are locked in the manner already noticed.

This lifting type is particularly associated with the struggle between Heracles and Antaeus, though, as Prof. Furtwangler 72 has shown, in this connexion it does not occur in archaic art, nor as far as I know does it occur on the red-figured tases. It must however have been contemporary with the latter, as we find the scene represented on the coins of Tarentum as early as the fourth century. From this time onwards the lifting of Antaeus occurs repeatedly in bronzes and statues, and especially on coms and gems. Yet even here we find little evidence for the later version of the story recorded. by the scholiast to Plato,73 and by Roman poets,74 that Antaeus being the son of earth derived fresh strength from his mother every time he touched the earth, and that Heracles therefore lifted him from earth and squeezed him to death. There are a few late monuments which may have been influenced by this form of the story, and Philostratus 15 gives a detailed description of the scene; but these are the exceptions and there can be no doubt that in the majority of cases, as Prof. Furtwangler says, Heracles lifts Antaeus not to crush him, but to throw him. Usually Heracles lifts Antaeus to his right, and the whole attitude denotes that he intends to hurl him with all his force to his left. Even in the late realistic monuments where Antaeus is represented with an expression of intense agony, the attitude of Heracles is preserved, and though the agony might denote the squeezing to death the attitude of Heracles is neither necessary nor appropriate to such a process. Indeed I have a cutting from a daily paper representing Madrali in the grip of Hackenschmidt which for expression of pain far surpasses any representation of Antaeus. It seems likely therefore that the story of Heracles lifting Antaeus from the ground and squeezing him to death, of which there is no evidence in early literature or art, was a late invention suggested by the regular artistic type. This view is confirmed by the persistence of this artistic type on coins; for nowhere is the action of throwing more clearly

<sup>#</sup> Jahn 195.

W Butt, Nap. None. Str. v. 10.

<sup>11</sup> min, 400, Berr, Fas. 1853.

II Roscher av. Herskles.

<sup>23</sup> Leg. 798 A.

<sup>78</sup> Lucan Pharmilla Iv. 612 sq.

iradition survives in the concluding words where Philostratus describes Herries coming to move Heracles Srs advo makes been represent the makes.

denoted than on some of the late coins of the Empire, an example of which is given in Fig. 9.76 We are justified therefore in connecting all monuments of this type directly with the wrestling school. In examining other types of the Antaeus story we shall find that they are all borrowed from the palaestra, in archaic art sometimes from the pankration, in later art generally from true wrestling.

The bodyhold from the side is also well illustrated by the Antaeus and Cercyon groups. In the first place we see Antaeus seizing, or trying to seize, Heracles by the foot. Such a movement is excessively dangerous and requires the greatest agility for success, and Heracles takes advantage of the opening as has been pointed out either to force his adversary to the ground, or more frequently to seize him by the waist as he stoops down, in the same manner as Theseus seizes Cercyon. We may distinguish two varieties of this type. In the first Heracles passes both arms round Antaeus, clasping his hands under his stomach 7 (Fig. 19); in the second he has passed one arm

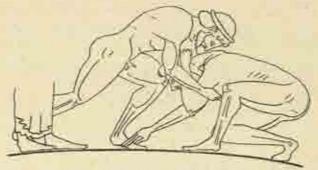


FIG. 19.—HERACLES AND ANYARUS. B.-F. AMPRICEA. B.M. B 292.

round him and with the other grasps the hand with which Antaeus strives to defend himself. (Fig. 20). In both cases the object seems to be the same, to lift Antaeus off the ground and throw him heavily. Mr. Cecil Smith in volume xxii. of this journal is appears to me to have misinterpreted this type. The hero, he says, locks his arms around the neck or chest of his adversary, and with head also pressing against the other's shoulders squeezes him to death: it is this type (adaptable also for the contest with the Nemean lion) which distinguishes the Antaeus contest from all others. The same type, he adds, came to be used for the contest of Theseus with Cercyon. Against this view I submit that there is no literary evidence for the 'squeezing' process until a much later date, and further that the position is not a natural or effective one for the purpose. Plato, as has been shown, quotes Antaeus and Cercyon as types of the pankratiast. The scholiast to

B.M.C. Coins of Tarentum 376, Alexandriz Trons 1954, 1479, Nicocu 113, Tarous 184;
 Furtwangler Ant. Gen. xxvii. 15, xliii. 67, 68;
 Reinach Répertoire de la Stationire 1, 472, 6, 477, 6, ii 233, 6, 530, 3, iii. 155, 6

<sup>=</sup> R.M. Fanes it 222, 596; Gerli, A. F. 113.

<sup>□</sup> Gerh. A. F. 70; Jahn 1107.

<sup>78</sup> P. 43.

<sup>&</sup>quot; Log. 796 A, op. supres p. 27.

Pinto, who tells us that Heracles apaperes for Apraior asteoper apaperes exacts are extenses as of Coreyon that Theseus abror apaperes epiperes els you kai are extenses. Now if we find the same type used in art for the two contests it is reasonable to infer that the same motive explains them both. Therefore either Heracles and Theseus are both represented as squeezing their opponents to death, or they both throw them to the ground and so slav them. But no one has suggested that Theseus squeezed Cercyon to death the evidence of the monuments and of literature is conclusive against such an idea. Unless therefore we are prepared to say that in precisely similar attitudes Heracles squeezes Antaeus to death, and Theseus lifts Cercyon in order to throw him, we must conclude that they are both lifting their opponents, and the same conclusion holds good of the representations of Heracles and the Nemean lion described in the last section. More

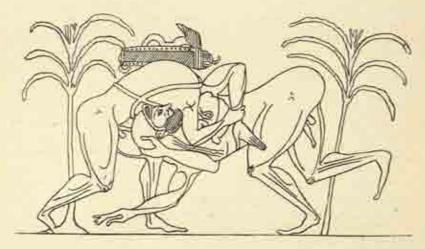


Fig. 20. B.F. AMERORA! MONICH. After Gerhard J.F. 70.1

commonly however in the latter contest Heracles stoops down or kneels, forcing the lion's head to the ground and strangling it with his left arm or both firmly clasped round its neek. We return therefore to Prof. Furtwingler's conclusion that Heracles lifts Antaeus, not in order to crush him, but to throw him, and the same type taken directly from the wrestling-school is used with Antaeus, the Nemean lion, and Cercyon. Similarly we shall find that the types for Heracles contest with Achelous and the sea monster are derived from the pankration. We may say indeed that for every contest in which weapons were not used the Greek artist found his natural, or indeed his only models in the palaestra.

In the case of Cercyon there is fortunately no possible doubt as to the object of the grip which we are discussing. On the British Museum kylikes E 36, 48 (Figs. 21, 22) and on a Bologna kylix <sup>31</sup> we see Thesens actually

<sup>&</sup>quot; Max. Mal. iii. 200; Klein Le. e.g. h.

lifting Cercyon off his feet. On E 48 the latter endeavours to save himself by seizing Thoseus round the waist on the other two vases he clasps him round the back with the left arm, while with his right hand he either



Fig. 21.—Theseus and Cenevox. R. F. Kylix. B.M. E 48.

reaches for the granul or grabs at the foot of Theseus. Had we no other evidence we should have no doubt that the movement here depicted is identical with 'the heave' of modern wrestling, so popular in the West of England. Apparently the heave' was no less popular with the Athenians



Fig. 22.—Theseus and Christon, R.-F. Kynex, R.M. E.36.

and is therefore closely associated by the wase painters with the contests of Thesens who was the first, they claimed, to make wrestling an art. Fortunately we have a far more important monument to confirm our view. A metope

Plato, who tells us that Heracles άραμενος τον Ανταΐον μετέωρον άμμασι κλάσας άπέκτεινε says of Cereyon that Theseus αὐτον άραμενος ἔρὰιψεν εἰς γῆν καὶ ἀπέκτεινεν. Now if we find the same type used in art for the two contests it is reasonable to infer that the same motive explains them both. Therefore either Heracles and Theseus are both represented as squeezing their opponents to death, or they both throw them to the ground and so slay them. But no one has suggested that Theseus squeezed Cereyon to death; the evidence of the monuments and of literature is conclusive against such an idea. Unless therefore we are prepared to say that in precisely similar attitudes Heracles squeezes Antaeus to death, and Theseus lifts Cereyon in order to throw him, we must conclude that they are both lifting their opponents, and the same conclusion holds good of the representations of Heracles and the Nemean lion described in the last section. More

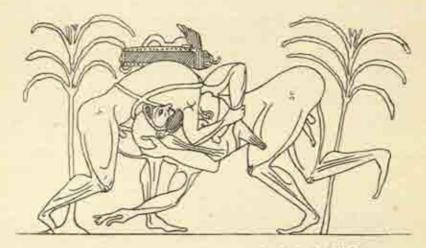


Fig. 29. B.-F. Amphora. 1 Monich. (After Gerhard A.F. 70.)

commonly bowever in the latter contest Heracles stoops down or kneels, forcing the lion's head to the ground and strangling it with his laft arm or both firmly clasped round its neck. We return therefore to Prof. Furtwängler's conclusion that Heracles lifts Antaeus, not in order to crush him, but to throw him, and the same type taken directly from the wrestling-school is used with Antaeus, the Nemean lion, and Cercyon. Similarly we shall find that the types for Heracles' contest with Achelous and the sea monster are derived from the pankration. We may say indeed that for every contest in which weapons were not used the Greek artist found his natural, or indeed his only models in the palaestra.

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lifting Cercyon off his feet. On E 48 the latter endeavours to save himself by seizing Theseus round the waist, on the other two vases he clasps him round the back with the left arm, while with his right hand he either



FIG. 2L-THESCUS AND CERCYON, R.-F. KYEIX, B.M. E 48.

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Fig. 22.—Thereis and Chioves. E.-F. Kylix. B.M. E 30.

and is therefore closely associated by the vase painters with the contests of Theseus who was the first, they claimed, to make wrestling an art. Fortunately we have a far more important monument to confirm our view. A metope

from the Theseum shows us the very moment when Theseus having lifted Cercyon off his feet is turning him over, or giving him 'the heave' (Fig. 23). Here too as on the vases, Cercyon endeavours to save himself, his right arm clasped round Theseus, his left vainly catching at the ground or at Theseus' leg. A yet later movement is given by a well known bronze statuette in the Louvre, so the victor having turned his opponent completely over, and on a late relief from the same museum representing the genii of sport so the defeated



Fig. 25.—Miltory of Thesseum. (From Prof. E. Gardner's Greek Scalpture.)

genius is seen slipping through the other's arms headforemest on to the ground.

The motive of the Cercyon vases is reproduced as a purely palaestra scene on a red-figured kylix belonging to Mrs. Hall exhibited at the Burlington Fine Arts Club in 1903. Between a pillar and an official we see two wrestlers, the left hand one grasping the other round the back, pressing his head down and preparing to heave him. To this we may add the group on the Berlin amphora 1716 already referred to. Finally we find the heave and the hold necessary for it clearly described by Quintus Smyrnaeus and Nonaus, of whose descriptions I have given a brief abstract on p. 25 of this volume.

#### E .- The Cross-buttock

The different holds which we have been discussing must certainly have been combined with various movements of the body or the legs. Some of these have been already mentioned incidentally, but it may be useful briefly to sum up the evidence on these points. We have seen that certain holds

<sup>&</sup>quot; Clares 882, 2014; Schreiber Julie xxiv.

<sup>15</sup> Clarec 187, 455, 15 Catalogue iii, 64

Mr.

could be taken from the front, from the side, or from behind. In the latter case a wrestler must either force his opponent to shift his position or shift his own position. The Greek term for twisting an opponent round so as to turn his back or his side was μεταβιβάζειν. Plato, in the Laws 795 c, speaking of the necessity of developing both sides of the body equally, illustrates his point from the trained boxer or pankratinst who οὐκ ἀπὸ μὲν ἀριστερῶν ἀδύνατὸς ἐστε μάχεαθαι χωλαίνει δὲ καὶ ἐφέλκεται πλημμελῶν ὁπόταν αὐτὸν μεταβιβάζων ἐπὶ βάτερα ἀναγκάζη διαπονεῖν. The monuments have been already illustrated (Fig. 17, and Pl. XII.c). So in the fight between Heracles and Achelous, Ovid describes the former as breaking away from the other's grip

Impulsumque manu
Protinus avertit, tergoque onerosus inhaesit.—Met. ix. 53.

Again, a wrestler may attain the same result by springing round himself —μεταβαίνειν. Thus in the Oxyrhynchus Papyrus we read:—

#### σύ αὐτὸν μεταβάς πλέξον,

and the corresponding order to the other pupil is μεταβαλοῦ—' turn round.'
The use of the preposition μετά, recalls the 'afterplay' of Cornish wrestling.
A more technical word for the same movement is έδραν στρέφειν, which is used much in the same way as our 'buttock' and 'cross-buttock.' This, according to Theocritus, xxiv. III, was a favourite throw of the Argive wrestlers,

δσσα δ' ώπο σκελέων έδροστροφοι 'Αργόθεν ἄνδρες άλληλους σφάλλουσι παλαίσμασιν.

Theophrastes, Char. 27, describing the person who wishes to be thought a well educated and accomplished gentleman, tells us that he affected παλαίων ἐν τῷ βαλανείῳ πυκνὰ τὴν ἔδραν στρέψειν. There has been some doubt whether ἔδραν στρέψειν means to turn oneself round, or one's opponent; but Theophrastus leaves no excuse for any doubt. We can picture this athletic fraud strutting about the bath and cross-buttocking imaginary opponents, just as his modern counterpart delights to bowl imaginary balls, or with his walking stick wings imaginary birds. Whether the Argive throw was the buttock or the cross-buttock, we cannot say: the addition of the words ἀπὸ σκελέων suggests the latter throw, in which the legs are brought more into play.

These movements may be illustrated by a black-figured vase in the Museo Gregoriano, <sup>85</sup> with a frieze of athletic scenes (Fig. 24). The accompanying illustration is from a photograph obtained for me by Mr. T. Ashby, of the British School of Rome, with the consent of Dr. Bartolommeo Nogara, Director of the Museum. The wrestler to the left has obtained a hold round the other's waist, either from behind or in front, but the latter by leaning his weight forward and seizing his arms has frustrated his attempts

at lifting him, and is himself in the position of advantage. Somewhat similar appears to have been the motive of a wrestling group on a metope of the treasury of the Athenians at Delphi, representing the exploits of Theseus, except that both the figures are here more upright. The left hand figure has seized the other by the waist; his opponent, as far as we can judge from the fragment, leans forward seizing him by the neck with his left arm.

A still better example of a cross-buttock is afforded by an unpublished bronze acquired by the British Museum in 1900 (Pt. XI, b.) \*\* It represents a



Pro 24 - B.-F. Asymous in the Mesen Greenmane.

contest between a thick-set bearded man and a powerfully made youth, and though of crude and coarse workmanship, is so full of vigour and life, that it is probably a copy of some good original. The bearded man has his back turned to his appearant, and is twisting him off his feet by means of a most enrious arm-lock. With his right hand he holds his opponent's right arm, forcing it back across his own right thigh, while he has slipped his left arm under the other's loft arm-pit, and gripped his neck, thus rendering the imprisoned arm absolutely useless, and obtaining a powerful leverage similar

<sup>54</sup> Fanting de Delphis iv. 40, 47.

<sup>\*</sup> On the C in the bronz-room. Height carrier than the first century a.u. 51 in prevenues unknown, date encertain.

but Mr. Walters informs me it is certainly not surface than the first seatony a.u.

to that of our half-Nelson, by means of which he twists him to the right, and forces him to the ground. The position may have been reached in the following way: the victor seizes his opponent's right arm and by a quick jerk turns him to the right (μεταβιβάζει), at the same time moving himself to the left, so as to be behind him. He then immediately slips his left hand under his left arm-pit, so as to seize his neck and force it down. By a curious coincidence, another copy of this most interesting group has been published this year in the sale catalogue of the Philip collection in Paris. The Paris group is of finer workmanship, described in the catalogue as 'bon style Grico-Romain, and is in much better preservation, but the motive is identical, and there can be no doubt that they are copies of the same original. They have also some points of resemblance with a bronze published in the sale catalogue of the Forman collection. Here too we have two athletes of a powerful type, one bearded, the other beardless, and the arm-lock is very similar as far as I can judge from the illustration; but the position of the body is rather that represented in Fig. 25, except that in the Forman group the beardless wrestler has not yet fallen on his knee. Perhaps the Forman bronze represents a later moment than the British Museum group, the moment when the cross-buttock has been completed, and the defeated wrestler is in the act of falling. Or else we must suppose that the artist has attempted to combine two well known originals, for I cannot believe that the bronzes represented in Pl. XI. b., Figs. 25, 26 are all derived from but one original. The powerful build, crisp hair, and short beard of the standing athlete in these groups are characteristic of the Farnese Heracles, and the two wrestlers are therefore identified with Heracles and Antaeus.10 If the identification is correct, it is an additional proof of my contention that the contest between Heracles and Antaeus is a genuine wrestling match, in which, as long as they are on their feet, 'squeezing' or 'strangling' finds no part.

# F .- Tripping.

We have already seen that the general term for tripping is δποσκελίζειν, that ἐμβολή and παρεμβολή denote special forms of tripping, ἐμβολή the hank, παρεμβολή the back-heel. By analogy διαβολή if used of a leg movement might mean 'the outside stroke.' Finally Eustathius uses the terms μεταπλασμόν and παρακαταγωγή to describe the chip by which Odysseus threw Ajax, apparently 'the inside click' or 'hank.' The monuments afford us very little direct illustration of these tricks. M. de Ridder quotes a bronze mirror on which are engraved two Capids wrestling. One of them has seized the other from behind and is lifting him off his feet, but the latter by hooking his left foot round his opponent's left leg prevents him from swinging him. A similar trick seems to be suggested in the vases shown in Fig. 8, and

<sup>&</sup>quot; Collection P. Philip Paris, 1905, No. 484.

<sup>18</sup> London, 1899, No. 05.

<sup>\*</sup> We may add to them the much mutilated H.S. VOL. XXV.

group in the Lenves, No. 561,

at P. 25 of this volume.

<sup>\*\*</sup> Stephani, C.R. 1869, Pl. I. 29, p. 144,

Pl. XII. c. The poverty of this evidence is remarkable when we contrast the endless varieties of tripping depicted in Egyptian art. In depicting the complicated scenes of such sports as wrestling and boxing, the Greek vase painter seldom departed from a few conventional types. More conclusive is the indirect evidence of a group of bronzes, representing a wrestler fallen on the ground supporting himself on his left arm, while over him stands his victor with his left foot still twisted round his, and his right foot behind only just touching the ground. So far all the bronzes agree, but in the treatment of



Fig. 25. - BROXXE. St. PETERSBURG. (After Stephan), C. E.)

the arms there are two varieties. In the St. Petersburg bronze (Fig. 25) the victor forces the other's head down with his left and with his right presses the other's right arm back in the same way as in the B.M. bronze described above (Pl. XI. b.). In the Constantinople group in (Fig. 26) he holds his opponent's neck with his right hand, while with his left he has twisted backwards his right arm and shoulder. In both cases he appears to have made his attack from behind—the after play. In the first case he

<sup>&</sup>lt;sup>36</sup> There are 340 wrestling groups in the tombs of Boni Hassan (Archaeolop, Nurvey of Egypt, Boni Hossas ii Plo V XV.). Separated as they am by nearly 2000 years from the monuments which we are considering, it is obvious that they have no considering, it is obvious that they have no connection with Greek wrestling in historical times, though they are often used in text-books to illustrate it Shanid Cretan exploration bring to light a series of Misoan wrestling groups, the comparison would be of very different value.

M Stephani, C.R. 1867, L. 1. 5.

<sup>&</sup>quot;Jahrb, 1898, Pl. XI. Other examples of the group are at Florence (Romach, Depertoire do in Naturire ii. 538, 5), in the British Museum 858 (of somewhat doubtful antiquity), in the Louve 361 (Jahrb, 1901, p. 51), at Lyons, in the Dimitrion Collection at Athens Schreiber Arch, Act, 1899, 133 notices another from Egypt in the Sieglin (ellection. The Florence and R.M. specimens agree with that is Constantinople. The Louver group is too much matilated for certainty.

seizes his opponent's right hand with his own right, placing his left hand on his neck and at the same time booking his left leg round his opponent's left; then pressing his neck forwards he forces his right arm backwards, using it as a lever to twist him off his feet. The other as he falls instinctively puts out his left hand to save himself, and so falls with left hand and right knee to the ground. In the Constantinople type the victor seizes his opponent's right hand with his own left, and pulls it across his back, at the same time forcing his head forwards and downwards with his right hand, and



FIG. 26.—BRONKE: CONSTANTINOPLE. (After Jahrh. 1898, xi.)

twisting his left leg round the other's left leg. The fall is still more inevitable than in the first case. Besides the interesting examples of arm-locks and of tripping which these groups afford, we must again call attention to the fact that in all of them the wrestling is over, and there is nothing to suggest that the defeated wrestler must be thrown on his back. He has fallen on his knee, and that is sufficient.

A special interest attaches to these groups when we compare them with the much disputed lines in the Equites of Aristophanes 261–263.

> κάν τιν αὐτών γυώς ἀπράγμου όντα καὶ κεχηνότα καταγαγών ἐκ Χερρονήσου διαβαλών ἄγκυρίσας εἰτ ἀποστρέψας τον ὥμον αὐτὸν ἐνεκολήβασας.

what he supposes to be the meaning of ageχειροσμάς. It is a term used of the preliminary stages of boxing, and the pankration.

<sup>&</sup>quot;Cp. p. 25 of this volume. So Forster Jaket. 1898, p. 181 'Dis suantant ist voriller,' but when he goes on to say 'se let zum dego-graputate gekommen,' I cannot understand

Prof. Mahaffy ingeniously explains the whole passage as an elaborate metaphor taken from the picking of figs, but whereas it seems unlikely that so simple an operation should need so many technical terms, the obvious appropriateness of every term to wrestling, and the constant reference to tricks of wrestling through the whole scene convince me that the primary reference at all events is to wrestling. A comparison with lines 491, 496 suggests that διαβαλών denotes throwing the arm across a person's neck. For αγκυρίσας the scholiast gives two explanations: 1. αγκύρισμα, a hook for pulling down figs. 2 άγκυρίσας = ὑποσκελίσας. There is no necessary inconsistency between the two ideas, and Aristophanes may well have intended to suggest both; but if one is to be excluded, it is certainly not the wrestling αγκυρίσαι, 'to hook,' is an obvious synonym for ὑποσκελίζειν and is included by Pollox in his list of wrestling terms, 97 Wrestling terms, especially those denoting tripping, are in most languages used metaphorically to express cheating, and in Demosthenes we find the combination of the two metaphors, υποσκελίζειν και συκοφαντείν. αποστρεψας τον ώμον needs no explanation : Prof. Manaffy for the purposes of his theory alters δμον to δμόν. The first and obvious meaning of all three terms then is in connexion with wrestling, and they denote three movements, seizing an opponent's neck, hooking his leg, twisting back his shoulder. Now these are the identical movements which are implied in the Constantinople and similar bronzes. Further, we must note that the attack is made from behind. This is the usual form of attack with boys playing tricks on one another, or hooligans assaulting innocent passers-by. The gilded youth of Athens as we know from the orators freely indulged in such horse-play, an excellent example of which occurs in Demosthenes in Cononem.99 He describes how Conon and his sons set upon Ariston, and after stripping him ὑποσκελίσαντες καὶ βάξαντες είς του βόρβορου ούτω διέθηκαυ έναλλόμενοι κ.τ.λ. In this passage ύποσκελίσαντες ράξαντες and έναλλόμενοι 100 are words familiar in the palaestra; naturally the young bloods of Athens made use of the knowledge they had gained therefrom in assaulting those against whom they had a grudge. We see now how appropriate this language is in Aristophanes. The chorus are taunting Cleon with getting hold of simple old gentlemen from the country and fleecing them. 'Whenever you find such an one you fetch him home from the Chersonnese, and as the old gentleman is walking along unsuspectingly, you suddenly throw your arm across his neck, hook his leg, and pulling his shoulder back, throw him to the ground. Such is the meaning which one would expect for the last word, but its actual meaning is obscure, and I cannot help fancying that Aristophanes has after his usual manner concluded with a humorous variation.

theres, of Simon and Emtostheres in Lysins, and of Demarchus in Asserbises.

<sup>\*\*</sup> Cp. Bekker's An. 81. 4, 327. 10 eduşar rön möğu, öxülün öl leri nahmarında.

<sup>&</sup>lt;sup>28</sup> Le Corone 158, ep. Plato Estàydonus 278 s.

<sup>\*\*</sup> C. 8. Bricker in his Charicles quotes the examples of Euergus and Meditias in Demos-

<sup>&</sup>lt;sup>100</sup> βάσσειν=to dash down, up LXX baints ix 11, Empolis Ταξ. 6 άγκυρίσας Ιββαξεν. For λάξ ἐνάλλεσσαι ν. Pollux iii. 180.

Suidas explains the word as ent rolors, Balvers and adds rola be if He further states that ενεκολήβασας is used for προσέκρουσας This account agrees fairly with the scholisst's derivation of Koletpaw in the Nubes 522. Here again Aristophanes is using the language, perhaps the slang, of the palaestra, and κολετράν apparently means to jump on an opponent's stomach when he is down, an unmanly proceeding of which Aristophanes protests he was never guilty. The scholiast explains the words variously as κατά κόλου τύπτειν, καταπατείν, ένάλλεσθαι τή κοιλία καί τύπτειν είς την γαστέρα. The scholiast to the Equites also explains ένεκολήβασας as καταπέπωκας connecting it with ακολος which means, he says, ψωμός, a most improbable derivation. The meaning 'to swallow' could of course be easily derived from woxov, the stomach, and all the evidence points to its connexion with this word. I should suggest then that it means to hit er kick in the stomach.' Such an action though not allowed in true wrestling was permitted in the pankration, and was doubtless as familiar to the schoolboys and roughs of Athens as to those of the present day, and so Aristoplanes appropriately concludes the tale of Cleon's knaveries with 'you hit. him in the stomach," 16 We look at the bronzes, we can see how easily the victor could kick his fallen opponent in the stomach with his right foot or hit him with his right hand.

The correspondence between the bronzes and Aristophanes' description need cause us no surprise. Most authorities regard the bronzes as of Alexandrian origin, copied from some well known Hellenistic group 102 The number of replicas which we possess is evidence of the popularity of the original statue and not merely of the statue but of the wrestling trick which deserved to be so commemorated. Förster identifies the victor in the Constantinople bronze with Hermes, the patron of wrestling. If the identification is correct, especially if the original statue represented Hermes, it is additional evidence of the popularity of the malacoma. The original statue may have been Hellenistic, but the πάλαισμα which it represented need not be so limited in date. It was probably as familiar at Athens in the time of Aristophanes as it was at Alexandria under the Seleucidae, and we need not wonder that a trick so well known not only in the wrestling-ring, but in the streets should have furnished Aristophanes with a metaphor to express the trickery of Cleon, and at a later period should have been the motive of a notable work of art.

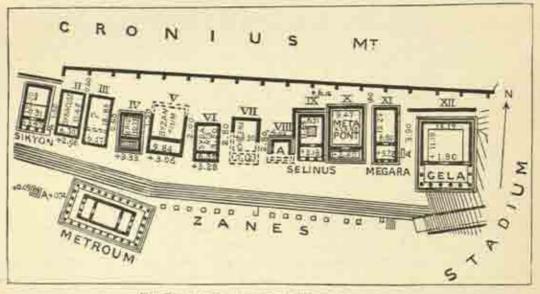
E. NORMAN GARDINER

her So in the passage quoted from Demosthenes, Conon and his sons after throwing Ariston in the mud proceed to impre upon him.

<sup>&</sup>lt;sup>80</sup> Forster Jahrb. 1898, p. 178, 1901, pp. 49-51: Perdricet Rev. Arch. 1903, pp. 396-7.

## OLYMPIAN TREASURIES AND TREASURIES IN GENERAL.

PROCEEDING along the terrace of the treasuries, Pausanias devotes the nineteenth chapter of his second book on Elis to passing in review the whole row of them, naming each according to the Hellenic community by which it was built and dedicated. First he notes the Sicyonians' treasury, then the 'Carthaginians' (Syracusans'). At this point begins a confusion in his text which culminates in the startling declaration that the third and fourth



THE REMAINS IN SITE OF THE ELEVEN THEASURIES SOON by Pamanian at Olympia on the Termes at the foot of Mr. Cromms.

A=Altar. Figures preceded by (+) denote metres of height above O=level of the stylubate of the Temple of Zeus. Other figures denote horizontal metres; written between two buildings, they give interval separating them; written inside ground plans, they represent dimensions.

treasuries are a dedication of the Epidamnians, a notable fact which he immediately denies by speaking of one and only one Epidamnians' treasury. After this he remarks that the Sybarites also built a treasury next to that of the Byzantines. This is disconcerting as he mentions the Byzantines' treasury nowhere also either before or afterwards. Next to the Sybarites' treasury, he then says, was that of the Libyans of Cyrene, in which he saw statues of Roman emperors. The Selinantines, he proceeds to note, built n

breasury to Olympian Zens before Sellinus was destroyed by the Carthaginians; then he touches upon the treasury of the Metapontines as next to that of the Selinuntines. Finally he mentions the Megarians' and the Geloars' treasuries. Answering to these treasuries ten in number, unless we count the two attributed to the Epidamnians, twelve distinct foundations have been unearthed side by side on the stepped terrace skirting the southern foot-slope of Mt. Cronius. One of these however, No. VIII, counting eastward as is the established and convenient rule, is neither of the size nor of the solidity required for a treasury. The little that can be made out from the remains of what is usually miscalled the eighth treasury confirms the idea that it was no treasury of the Cyremeans or of any other community but a very ancient altar, perhaps an ash-altar. Its antiquity is proved not so clearly by the archaic features of its remains as by the high level at which its foundations were laid. Finally, since it must, if a treasury at all, be the Cyrenneans' treasury, it is significant that the one fact recorded by Pausanias of the Cyrenneans' treasury cannot easily be connected with No. VIII, which, if it had an interior at all, was absurdly small to contain statues of Roman emperors. Its outside dimensions are 4:42 by 5:78 metres, the longer measurement being in part due to its hypothetical restoration as a treasury. Nos. I-VII and IX-XII, the eleven foundations remaining, represent the ten treasuries connected by Pausanias with ten different communities which he names. The eleventh foundation cannot have belonged as in our text of Pansanias, to the Epidamnians, nor is it reasonable to read in the Byzantines for its founders. Its founders were some Hellenic people unknown because their name has fallen out by a confusion of the scribes. Really

I See A II p. 48, where Dr. Dorpfeld is doubtful, and A I, pp. 75 f., where he clearly proves the foundations and walls is this mass to have been too slight to allow of more than an outside veneer applied to a solid core,—that presumably of an altar. Remains on the spot exhibit traces of heavy since contings, and remains of a since moulding running about the base of this altar as about that of many others on the sits. Dr. Dorpfeld suggests that this may be the alfar of Go, mentioned by Pausamus (VI xiv 10) just after his notice of the altar of Heracles lying west of the westernmost treasury (I). N.B.—References to A=Olympia, Textband.

Blockh emended the fifth paragraph in Pamanias VI xix before the German excavations at Olympia showed that there were eleven tremarises. Hence he connected the mention of the Byzantines' treasury—alsolately required by the opening of paragraph seven,—with the fourth transact, knowing that both the third and the fourth could not be given to the Epidamnians. Bockh's enconflation prevented the excavators from an unbiased consideration of their data, and led them (a) to make oure, in apite of evidence to the contrary, that No. VIII was a treasury and not an altar, and (b) to peramade themselves, on what Dr. Dorpfeld lately assured me was not certain syntence, that Pansanias could never have had sight of Nos. 11 and III. Thus, by suppressing these two muong the eleven in situ, and by mistaking No. VIII for a treasury, they made our that Pansanias saw only ten treasuriss, the names of which he gives, I, IV-XII. This whole scheme breaks down through the establishment of two facts (a) that there is no convincing reason for unpposing that a road up Mt. Cronius was carried over II and III before Passemine saw the terrace and the transuries, on the contrary there is every reason to make us sure the read up to the summit was always where it now is. on the north side, the south side being too steep,-(6) that Paussnias saw and actually mentions eleven multiof ten trassuries, although the name of one of them has fallen out of our text, which has also lost the words, - toward the end of VI xix 5,-in which he first mentions the Hyzautines' trassury. See A.I pp. 75 f.

there is uncertainty as to whether the missing name should be connected with III or IV, but the probabilities favour our considering IV to have been the Epidamnians' treasury. We are however certain of the names of I and II, and also of those of IX-XII. Nos. V-VII remain, and there is little doubt that to them apply, in due succession, the three names on Pausanias' list remaining, Byzantines, Sybarites, and Cyrenaesus. The only doubt arises from the parenthetical way in which the Byzantines' treasury (V) is mentioned. Probably, as Dr. Dörpfeld suggests, some mention of the Byzantines' has fallen out,—just before this parenthetical allusion,—at the end of paragraph 5. It is the less difficult indeed to take this view,—which involves the falling out, at the beginning of the same paragraph, of the name to be connected with III,—because not only 5 but paragraph 4 preceding it is in some confusion textually.

Such being the condition of our text in two of the fourteen paragraphs concerning the treasuries, it is a relief to know that, without any recourse to Pausanias whatever, we can name and identify Nos. I and XI. Upon the recovered fragments of the architrave of XI is inscribed Meyapeov, while Eccuorior is similarly cut on a stone of the eastern anta of I. Furthermore, XII, the Geloans' treasury, mentioned last by Pausanias and unmistakably located, is further identified by his quoting the inscription which he read upon it; while its remains, found in the walls of the Byzantine fort, clearly stamp it,-quite spart from anything in Pausanias,-as of Sicilian and Gelean construction. Two of the remaining nine, Nos. IX and X the Metapontines' and the Selinuntines', can be identified by recourse to Pausanias without reference to the corruptions in his text, and without even deciding that No. VIII cannot be regarded as having been a treasury. If the conclusions about VIII are admitted, then there is no doubt or difficulty in identifying VII with the Cyronaeans', VI with the Sybarites', and V with the Byzantines' treasury. Either III or IV, probably the latter, must be the Epidamnians, the name of III having been lost out of the text of paragraph 5. Finally the disorder of the text in the preceding paragraph 4 is not so complete as to leave any doubt that II is the Syracusans' Carthaginian treasury:

For determining the dates of the several treasuries there are five methods of proof: (1) direct information given by Pausanias or another, (2) expert evidence as to the date of ascertained architectural features, (3) a comparison of differences in the levels at which were laid the foundations in situ, the presumption being that the earliest were laid on the highest or the lowest points of the ground available, (4) a general consideration of agreements and

The wording of Passanies VI xix 7 excitales the notion of any alter or building between IX and X, whose walls in fact all but touch in their formulations, justifying our author's \*pacexis; while he says of VI, the Sylaritos', and VII, the Cyrenasans' treasury: \*phs 24 +\$\vec{\pi}\$ Inflamation Addison for I the in Kepping Surveyor.

pointedly coupling VI and VII at the beginning of a sentence. His next sentence begins Exclusion 80 Economics, and there is just coom at the intervening full step for an altar like No. VIII.

The facts about differences of level must not be pressed too far. Foundations at a mean

differences of alignment, (5) a scrutiny of the very unequal interspaces separating the foundations in situ, the presumption being that, given treasuries A. B. C. D. E built side by side, if the interspaces BC and CD, being equal, are also so much narrower than AB=DE as to allow of it, then C was built later than A, B, D, and E, and crowded in between B and D. Finally, since novelty and variety played their part in securing to the Olympia their hold upon constant national resort to which the founding of treasuries bears witness, traditional dates for the introduction of new athletic events may be taken into account.

The highest ground upon the terrace is occupied by the foundations of the altar, No. VIII, and by those of No. VII. the Cyrenaeans treasury. The lowest level lies on the extreme eastern verge of the terrace overhanging the Stadium, and is occupied by the Geloans' treasury, No. XII. The means of dating this fabric by evidence derived from style and workmanship have been vastly increased through the recovery of its shattered superstructure from the walls of the Byzantine fort. As a whole the building of the Geleans belongs to two periods: the earlier and principal part, built apparently like the Chidians' Delphian treasury as a single chamber facing east and west, was aligned on the south side to the conjectural south front of No. VIII, the only structure found on the terrace by the Geloan builders. As between VIII. the ancient ash-altar, and XII, the Geloans' treasury chamber, VIII,-being on the highest level, chosen with reference to the primitive altar service of the sacred grove,-must have been the earlier foundation. Had the highest level been still open to their choice, the Geloans might indeed have preferred it as affording equal command of the Stadium and of the Altis. Architecturnl forms and characteristic decorations favour dating the original treasurychamber of XII very late in the seventh century, -this is the testimony of architectural forms, or very early in the sixth century B.C. this is the testimony of characteristic decorations. Gela was founded about 690 n.c. and is the earliest of Sicilian colonies to figure conspicuously at Olympia. About 100 years before the recorded chariot victory,-won by the Geloan Pantares, son of Menecrates, somewhere between Ol. 67 and Ol. 70 (512-500 R.C.),-the original treasury-chamber of XII was built. Its southward-facing porch presumably commemorates Pantares' victory, and was possibly patched upon the old treasury-chamber along with the three surrounding steps shewn in situ, by his sens Cleander and Hippocrates, tyrants of Gela from 505 B.C. to 491 B.C.

level, higher than the lowest and lower than the highest should not be grouped together chronologically on that ground. But see Dr. Dörpfald & H. pp. 206 f.

The foundations of No. VII are more trembes 0.5 m deep filled in with sand and gravel. Small segments of walls still standing is situ show a settling of 0.016 m. In fact these filmsy foundations are so primitive and so insignificant that, without their neighbours and the general statement of Pausanias about

the terrape, there would scarcely be resson to restore VH as a "tressury," See A II p. 48.

The antiquity of VIII is proved (i) by its occupying the highest level, (2) by the variation of spaning between it and No. IX on the sast and No. VII on the west. The eastern part of the foundations of VIII is of marly limestone, its later western part is of poros. No clamps appear, but on some of the limestone blocks are left the besses used in lifting them. A II p. (8)

Architectural remains date the building of this porch at the end of the sixth century or the beginning of the fifth century just as clearly as similar evidence dates the original treasury-chamber at the end of the seventh or the beginning of the sixth century s.c. But Nos. IX, X, and XI adjacent, and for that matter VII lying just beyond the altar (VIII), must have been built before Cleander's Porch, for they are aligned not to the front columns of this addition, but to the south side of the unaltered Geloan treasury-chamber beyond which Cleander's porch projects several yards southward. Accordingly, the date (505-491 s.c.) of the Geloans' porch gives a terminus unte quem

to help our attempt at dating VII, IX, X, and XI.

With this terminus ante quem in mind, let us examine the plentiful remains of XI, recovered along with similar relics of XII from the east and west walls of the Byzantine fort. Here the evidence is clear. Workmanship, architecture, decoration, and sculpture all point to a time earlier than the fifth century B.C., agreeing with the terminus ante queat. As to a more definite date, we may conjecture the Megarians' foundation either to have coincided with the beyday of Megarian colonization, 675 B.C. (Cyzicus), 674 B.C. (Chalcedon), 662 B.c. (Selymbria), 657 and 628 B.c. (Byzantium),—or to have formed part of the ambitious architectural enterprises of the Megarian tyrant Theagenes, carried out all of them presumably in the last quarter of the seventh century s.c. On the whole the date of Theagenes seems the likelier of the two, and thus XI is dated not far from the end of the seventh century s.c. -later than the Geloans' treasury-chamber, but not necessarily earlier than No. X, which is also later than XII. No. X, the Metapontines' treasury, strongly resembles No. XII in its ground plan, to which that of No. XI offers a striking contrast as far as the relations of length to breadth are concerned. Moreover, if we suppose the site free with IX and XI not yet built and the Metapontines free to choose any site between XII and VIII, the location of X is easily explicable. X occupies ground as nearly half way between XII and VIII as the natural configuration of the terrace permitted. In order to secure higher ground, an interval of about 14 yards was left toward XII, and this reduced the interval toward VIII to 10 yards more or less. The most casual glance at a plan of this end of the terrace shews that IX was crowded in after the building of X; and XI, the Megarians' house, was obviously planned to suit the narrow space available toward the east after X was founded. How else can its quite new proportions of length to breadth be accounted for ! No. IX, then, was undoubtedly of later foundation than X, and almost as certainly later than the Megarians' (XI), whose site, if unoccupied, would assuredly have been preferred. As Selinus was destroyed in 409 B.C. IX must have been built before that year. The material of its foundations hard limestone with shells, quite distinct from the porce of the Tenrale of Zens,-is identical with that of its superstructure, and the workmanship of its superstructure, found on the site of the Prytaneum, dates it as of the sixth century B.C. It is likely therefore that the Selimuntines' treasury, founded after the Megarians', was built shortly before the end of the sixth century, while the Megarians' house still excited the emulation of Scimuntines

remembering that Hyblaean Megara from which they sprang was a Megarian colony, and not unmindful of the Helleuic credit achieved by Metapontum and Gela through their lavish expenditure of time and pains upon the building of Olympian houses. Keen emulation among flourishing young colonies must, I am confident, have played a large part. If we look now to No. VII, the Cyrenaeans' treasury,—the last of those to which applies our terminus ante quem (505-401 B.C.) -its remains are so scanty and so shattered that we are forced to fall back upon the equal interspacing of Nos. V, VI, VII, and VIII, and to argue on that ground that V, VI, and VII must have been of approximately even date. Sybaris, however, was destroyed in 510 a.c., and No. VI,-the Sybarites' treasury,-must be dated accordingly. This gives us again, but with greater precision for V, VI, and VII, the terminus unte quem which applies to VII, IX, X, and XI. If a more precise date than before 510 n.c. for V, VI, and VII were required the circumstance that XII certainly, and X most probably were founded not far from 600 a.c., and the fact that Sybaris, founded in 720 a.c., achieved its greatest prosperity with surprising rapidity," would favour a date not far from the middle of the sixth century for all three of them (V, VI, and VII); the more so because Dr. Dorpfeld's expert evidence touching the architecture of No. IX, the Selinuntines' treasury, dates it as belonging to 'ungefuche die zweite Haelfle des sechsten Jahrhunderts.' Now the Selinuntines would hardly have chosen to crowd their house against that of the Metapontines and against the altar (VIII), unless V,10 VI, and VII had already preoccupied the space west of VIII-this argument favours the dating of V. VI, and VII shortly before the year 550 B.C.

Nos. I to IV still remain undated. I, when first discovered, was dated 480-477 B.c.; Dr. Dörpfeld however inclines to date it at least a generation later, because of an "astragal" along the top of its frieze, which must, he suggests, have been imitated from the Parthenon. Would builders capable of borrowing so good a point have been content with the other details of No. II These are all recovered because their scattered fragments, being of Sieyonian stone, have been identified. Their archaisms are glaring in the new light of Dr. Wiegand's studies of Athenian poros buildings. The Parthenon 'astragal' may derive from No. I, which, with all its archaisms, can hardly date much later than 480-470 B.C. As for II, the 'Carthaginian treasury' of the Syracusans, Pausanias dates it just after 480-79 B.C. and the battle of Himera. The fact that the earliest treasuries were crowded on to the

<sup>&</sup>lt;sup>2</sup> No one familiar with this phenomenon, exhibited in many forms by the rival cities which spring up in the Mississippi Valley between 1820 and 1890, will ever underrate its spraging affectiveness.

The interval on either side of VII is 2.8 m.; that between VI and V is 2 m.; that between V and IV is 1.3 m.

<sup>\*</sup> Straho p. 263: receiver & evreyin Sin-

<sup>&</sup>quot;Inspection of the remains of V yield fee data. Its foundations on the south have completely disappeared. Its width is greater than that of any other treasury except the Geleans', Like the Geleans' (XII) it had six columns in front. Curtius has pointed our that the Syzantines' treasury is likely to have been founded before \$13 a.c., the date of Darius' Scythien campaign, after which the Syzantines were hampered.

eastern end of the terrace and the last built were towards the west would invalidate Dr. Dörpfeld's argument (A II p. 207) that II was early because of its level, even if its level varied strikingly from that of I, IV, V, VI, IX, X, and XI, which it does not. A glance at the plan of the terrace suggests that No. I may very probably have been built shortly after No. II, for it is separated from it by a convenient interval, is aligned to it on the south, and has its east side parallel to the opposite side of II. Turning now to Nos. III and IV, we remember that one of these, probably the one earliest built, was a dedication of the Epidamnians. No. IV, like Nos. XII, and 1, is of a material unique on the site, and probably imported. White limestone spiinters found near its foundations help to identify its superstructure, whose scattered relics have been identified solely by their material. Called upon by the then accepted, and still prevalent view which ignores Nos. II and III, to identify these white limestone remains with the second (Syracusan) treasury of Pausanias, Dr. Dörpfeld, A II p. 46, pronounced them far too archaic for a building commemorative of the victory of Himera, and fixed their date as toward the middle of the sixth century B.C. This date does not ill sort with the regrettably vague indication or bint given by Thucydides as to the time when Epidaminus, not yet distracted by factions, was most prosperous 11 Having dated V, the eastern neighbour of IV, at about 550 B.C., note that, whereas two metres intervene between V and VI, only one and three-tenths metre intervene between V and IV. This implies that IV was crowded in after V was built, and agrees with the date shortly after B.C. 550, attached by experts to the architectural remains of IV. No. III remains. It was certainly crowded in after II and IV were built, and may be conjecturally made out as of about the same date with I, which was also built after II, i.e. after 480-70 s.c. To sum up results, the order in which presumably the twelve foundations in situ on the terrace of the treasuries were successively laid is: VIII, XII, X, XI, VII, VI, V, IX, IV, II, III, and L. All excepting only I, II, and III were certainly founded in the sixth century. I, as we know, in some sense takes the place of a much earlier dedication,12 and II was founded in commemoration of the victory at Himera. Only I and XI, among all these locally planned and dedicated houses, are the gifts of Hellenic communities of Greece proper, eight of them certainly, and quite possibly also a ninth,- No. III, of unknown origin,-were built by colonists.

ing there as the tawny sandstone of I absunds at Sieyon, then IV might be named the Epidamuians' treasury with more confidence.

Distances was founded in 625 m.c. After its foundation, may Thurydidos, as time went on (προελθόστος δι τοῦ χρόσος, Ι παίν 3) it became a flourishing place (αστάλη). Allowing three generations for this growth, we have on 525 n.c. for the foundation of IV, if IV was the Epidamaians' home. The only circumstantial evidence that is lacking is in regard to the white limestone used in building IV. Nothing of the frind has been found at Syncuse. If a thorough search on the site of Epidamans were to show this limestone abound-

<sup>44</sup> Proofs of this as indicated by Ernst Curtins are chiefly a preors, but there is also (1) Pausanias' statement that Myros founded I, obviously built long after Myron's slay, and (2) the fact that tiles clearly belonging to an archaic building were found among the broken stones on which are bedded the foundations of I.

During the seventh and sixth centuries the management at Olympia so varied and multiplied new events in the games as to reinforce their religious appeal in a manner peculiarly attractive to colonists, and so the era of treasuries chiefly colonial is a notable chapter in the history of the consolidation of a truly pan-Hellenic consciousness. The Geloans' foundation came when various new events for boys had been introduced. In the east Byzantium, Prusias, and Apollonia, in the west Massilia were new colonies then, and new also was the Delphian treasury of Cypselus. About the time when this treasury was rebaptized (in 581 B.C.) and called the treasury of the Corinthians, came the Metapontines', the Megarians', the Cyrenaeans', the Sybarites' and the Byzantines' Olympian houses. These, with the Selinuntines' and the Epidamnians' foundations, finally fixed upon Olympian treasuries their association with broader and more inclusive conceptions of religious service, such as were contemporaneously manifested at Athens under Pisistratus. Of all this more anon. The last point here to be made is that the victory of all Greece against the barbarians having been commemorated by the Symonsans' Carthaginian treasury, closely followed by the dedication of III and I, there was no further call for the founding of new treasuries.

## Treasuries in General.

The term \$\theta \sigma avpo\eta \text{was on the whole a misnomer, and its unquestioned currency has given rise to misapprehensions both in antiquity and in later days,-misapprehensions only to be removed by getting at the buildings themselves and their contents. Herodotus understood their uses in an oldtime sense which had already suffered much modification when he wrote,13 Strabo's definition, if rightly emphasized, is sufficiently comprehensive to cover all the senses, earlier and later. He attributes in part the greatness of Delphi to its θησαυροί οθς και δήμοι και δυνάσται κατεσκεύασαν, els οθς και χρήματα άνετίθεντο καθιερωμένα και έργα τών άρίστων δημιουργών (p. 419). But in this definition the word καθιερωμένα requires great emphasis, and the word covictas must be blotted out, if we wish the description to apply to the Olympian treasuries founded after the Geloans' treasury-chamber was built. Call such buildings bygavpoi with Herodotus and Pausanias, use with the expert antiquarian Polemo one word, Bygaupol. at Delphi, and another, vaoi, at Olympia; or take from Delian and Delphian inscriptions the sacral term olker, two things hold of all treasuries like the Olympian ones: (1) they are built for the worship of a god, (2) they stand for the glory not of any one dynast, but of every member of some one Greek Demos. Far wider of the mark than Strabo's is Baehr's definition founded

<sup>&</sup>lt;sup>10</sup> See i 14, where he says the Corinthians' treasury at Delphi was properly Cypesius', and iv 162, where he speaks of the censer of Euclibon of Cypriote Salamis in the Corinthi-

ians' Delphian treasury. Contrast however iii 57 on the Siphnians' Delphian treasury.

<sup>&</sup>lt;sup>14</sup> This makes it absurd to class either the Leonidaeum or the Philippeum among #graspol.

on Herodotus and innocently intended as a translation of Strabo: Aediculae sive cellas in Delphico templo. The last four words are added by way of being precise.10 W. J. Fisher sought precision in another extreme. Full of what at that time were called Agamemnon's Mycenaean treasury and the Orchomenos treasury, he sought the Olympian treasuries of Pausanias not only as he should outside of any temple, but also as he should not outside of the Altis itself on the slope of Mt. Cronius. His search was rewarded by the discovery of a brick-kiln which had the undoubted merit of being circular.10 Bötticher,17 renouncing all hope of precision at a time when neither Delos, nor Olympia, nor yet Delphi had been excavated, distinguishes between treasuries erected in connexion with tree-worship-this class although more ancient than temples includes the Olympian treasuries,-and treasuries erected near Hellenic temples. Finally he enumerates twelve Olympian treasuries, the first being the Hemeum and the twelfth the Philippeum, neither of which is ever spoken of as a treasury by ancient writers. Such in fact was the confusion about Olympian treasuries that it has not been dispelled even by the final appeal to the spade until now, when both Olympia and Delphi have been thoroughly excavated. Herodotus, Strabo Athenaeus, Pausanias, and Plutarch though often occupied with the Pisatan and Parnassian treasuries have not a word about the communal houses (treasuries) at Delos, the first discovered buildings of this class. So little could be made out at Delos that discovery was doomed to wait long upon understanding.18 It has not even now been possible to identify at Delos any one of the several buildings whose foundations show them to be treasuries after the Olympian and Delphian pattern. All these communal houses are special cases of the templum in antis, each consisting of a small rectangular chamber fronted by a shallow porch and having no ὁπισθάδομος. There is, then, no doubt remaining as to what a treasury or communal house was; but only three of the Delphian treasuries are identified and named beyond a peradventure, so that the eleven Olympian buildings on the terrace take their place, along with the Sicyonians', the Thebans' and the Athenians' Delphic treasuries as the monuments with which we are chiefly concerned. Foundations alone yield little more than the typical plan just. described and based alike upon remains at Delos, Delphi, and Olympia, 18

M Note on Hdt. 1 14 (1856).

<sup>&</sup>lt;sup>10</sup> See Bottlicher's Olympia p. 225, on Fisher's visit to Olympia in 1853.

<sup>&</sup>lt;sup>17</sup> Tektonek pp. 434-454; Banmeultus pp. 156-162.

<sup>&</sup>quot;The foundations of six small buildings were found at Delos before anything of the kind was turned up elsewhere. Of these one was presumably the temple of Elithyia men tioned in the inventories. The five others were 'treasuries.' Of these the two largest were probably the 'Asspies and the Nafies elses (treasuries) of the inventories. Of the remain-

ing three, two were probably the Artise and the Analos slees of the inventories. These last supply no more for a fifth treasury, since the superus slees, frequently mentioned, is identified with a large square building quite away from the group of the communal houses clustering around the Letour and the temple of Apollo.

<sup>18</sup> The Olympian transuries, V and XII, vary from the (emplois in satio, XII faving a south perch with six columns and no satio, V being a regular Doric hexa-style building. For the absent hexa-follows, 207.

Much more than this is fortunately known of the Megarians', the Geloans' and the Sicyonians' houses at Olympia and at Delphi of the Athenians' house and of one the name of which is in dispute, but which I hope anon to shew was the Siphnians' not the Chidians'. These five very completely recovered monuments constitute one of the most interesting groups

of Hellenic buildings of a sacral character now open to our study.

Pausanias throws some light on the uses, religious and other, to which these treasuries or communal houses were put, in giving some of the motives and occasions for their foundation. The most obvious motive, one which can never have been wholly absent, was sheer piety toward the god of the sanctuary. Pausanias (X xi 5) credits the men of Thracian Potidaes with this motive at Delphi. To it might attach some vague idea of atonement for previous neglect, such as lorks perhaps in the record of the Siphnians at Delphi (X xi 2), or some impulse of Hellenic thanksgiving for victory such as prompted the Athenians at Delphi (X xi 5), or the Syracusans in building their 'Carthaginian treasury' at Olympia. In the later day of Greek particularism, a more parochial patriotism prompted Brasidas and the Acanthians to build their Delphian house with spoils from the Athenians, whose catastrophie at Syracuse was commemorated at the same sanctuary by the Syracusans' Delphic treasury. The Spartan disaster at Lenctra was similarly represented, again at Delphi, by the Thebans' treasury; but no communal house at Olympia,-unless we can make something out of Pausanias' statement about the Megarians' treasury (VI xix 13),—was built with means derived from the spoliation of one Greek town by another. Finally Pausanias recognizes in connexion with the Chidians house at Delphi the possible impulse for display which might prompt a pious community at a season of prosperity to figure at Delphi as the wealthy founders of an ornate Herodotus suggests by unmistakable implication the same motive for the building of the Siphnians' house at Delphi (iii 57), nor can it be doubted that the Geloans at Olympia congratulated themselves upon the splendonrs of their gorgeonsly decorated Olympian treasury-chamber. The sumptuous house by which the Chidians advertised their prosperity to the frequenters of Delphi was if I am right, nothing more nor less than the famous Lesche, glorified by the earliest and most renowned compositions of Polygnotus. As to the beauties of the Siphnians' treasury at Delphi, which so impressed Pausanias and Herodotus, seeing is believing. Otherwise such a jewel of a building could not be credited to so early a period.

The inferences to be drawn from this review are two: (a) that, whenever a treasury was founded, two deeply underlying currents of enthusiasm and loyalty met and took on a visible shape,—loyalty to the service of the god, enthusiasm for the glory of the state. The choice of a far-off site testifies to some quickening of religious experience, and the difficulties overcome in detail are eloquent of some thrilling and uplifting home crisis. To build anything at Delphi or Olympia was not easy in days when transportation

X xi 5 : Kridlour & olic oldu el ent nien viel fi er entdeifen edduimentar @kodonfieurno.

was so difficult. The pains of planning and fashioning a treasury like the Geloans', built at a time when the arts were still in their swaddling clothes, are more easily described than realized. Clearly, the Athenians and the Syracusans building their treasuries at Delphi and Olympia were in the throes of a new national birth, and yielded to the same characteristically complex impulses that have fixed upon the Feast of the Annunciation as the Independence Day of Modern Greece. The second inference is (b) that wealth lavishly, ostentatiously even, bestowed upon a Delphian or Olympian  $\theta\eta\sigma a\nu\rho\dot{\rho}\dot{\gamma}$  of the kind in question,—a communal house, that is to say,—did not take the form of sumptuous and costly gifts, stored in that house as a strong box. The expenditures of the Geloans, the Siphnians, and the Cuidians respectively were upon the house itself, and had little or nothing to do with anything treasured in it for safe-keeping.

In the light of this last inference a puzzling paradox of Pansanias touching the Sicyonians' treasury at Delphi becomes easier to understand. Having mentioned that fabric, he goes on to say: χρήματα δε ούτε ένταθθα Τδοις αν ούτε έν άλλφ τών θησαυρών. His meaning may perhaps be thus paraphrased: Since this is a θησαυρός one would naturally expect it to contain treasure (χρήματα), but as a matter of fact neither this nor any other of the houses called treasuries contained χρήματα. Treasuries, that is to say, are so called because there are no treasures there. Pansanias means at all events to distinguish the meaning of  $\theta \eta \sigma a v \rho \dot{\phi}_{\gamma}$  as applied to communal houses from its usual meaning as attached to buildings or strong-boxes for the safe-keeping of valuables. The θησαυρός of King Croesus was such a θησαυροφυλάκων,<sup>™</sup> However, Pausanias can hardly have had just such a secular θησαυρός in mind, but rather the consecrated θησαυροί = θησαυροφυλάκια attached to temples or built within precincts,-used, all of them, for nothing but the storage of χρήματα, i.e. specie or its equivalent. Such was the byoaupos at Oropus of which we have details suggesting " a mammoth stone 'poor-box' like one just discovered in the south-eastern porch-corner of the old temple at Corinth. From Eleusis 23 we have minute record of sums taken from treasuries belonging respectively to Demeter and Persephone. Lyces, who opened them, gets his fee and then Lycurgus provides for an expiatory sacrifice (apertiplar boras) for the technical sacrilege involved. These Eleusinian treasuries were probably independent stone structures or treasure-vaults built somewhere within the precincts, but can hardly have borne even the most remote resemblance to a Delphian or an Olympian communal house.10 Instances might be multiplied from inscriptions showing

ni See Hdi. iii 57 ad fin.

Pansanias often uses the word χράμετα for what we sometimes call treasure.

Hill. (vi 125, i) 150, vii 190) mass δησαυρός for any sort of treasury or treasure-box: see in 106, where it has the same of lefe or atrong-box. Cf. Stillas, s.v. δησαυρός 'Αππικός διάς τε πολλά και σίτου έτομαζετο, και δησαυρός το Αάκισκ. This hast = δησαυρός in Herodotina and

Fausanies. Contrast Strabo's account of secampoor carried off from Delphi by the Tectosages and consisting apparently of ingots of gold and silver (IV p. 188).

<sup>20</sup> Ditt. 589, 417-402 p.c., or 386-377 p.c.

<sup>\*\*</sup> Ditt. 587, 11, 302-309, or 329-8 H.C.

Ditt. 653, 11, 90-96; where are given details inspired from Elensis and providing for the building of a treasury sacred to Persephone.

the habitual use of θησαυρός = θησαυροφυλάκιου in all official records. We shall, then, only conform to strict sacral terminology in discarding the term θησαυρός, and in using henceforward for the communal foundations at Delphi, Delos, and Olympia the Delian sacral term communal house, olkos, as used in the Delian inventories.

Money-box or strong-box treasuries attached to temples or built near by bave, then, little or nothing in common with the miniature temples under discussion. Small though these were, their size forbids the notion of a mere strong-box, and the time, pains, and treasure lavished upon their construction put it quite out of court. They certainly contained no deposits of specie, and we hear of no precautions or prescribed arrangements for opening and closing them. They were kept under lock and key like other temples and depended for their inviolability upon the same unwritten laws that protected temples. Like temples, they were closed at night, and Athenaeus (XIII p. 606), where he records episodes illustrating the effect of various paintings and statues on several animals and certain clodhoppers, culminates with the tale of Cleisophus of Selymbria. In the temple of Samos as recorded by Alexis and Philemon. In and caps the climax with the adventure of one of the theory in the communal house of the Spinatai. At Delphi. Abnormally

Minute regulations shoul the keys and their custody are entered into

See Ditt, 629, where seven men are put in charge of an Olbian Frample and sums to be deposited by worshippers sacrificing are enunerated (third century). See also a Pergamena inscription (666, 12), and a Halicarnssssan inscription (601, 30).

" In these θησαορός applies strictly and salely to various δησαοροφολάκα or strong-boxes within the precinct and in one case inclie a temple. For 'tressuries' such as Pausanias are on the Olympian terrage, the invariable word used is along.

For formalities, not unlike those observed at Blemis though simpler, ser J.G. I. 1970.

" Selymbria was founded in 662 n.c. by the Megarians a little before they founded Byrantinm (657 n.c.), and omed to be on the highread of any Inerative trails as soon as Byzantium on the cost (42 miles distant) and Perinthus on the west (22 miles distunt) were founded. The pressure of Selymbrians in the temple of Sumor, the metropolis of Perinthus, was doubtless in the natural course of events, when Perinthus abot shead of Salymbria as apparently it did long before the end of the Peloponnesian war. Indeed Selymbrans bad a force life of it in the face of their constant exposure during more than 2000 years to raiders from Thrace, who made it very difficult for them to maintain their hold on Hellenic traditions and culture. Xenophon's friend, Clearchus, spoiling for a

fight at the close of the Pelopounssian war, went out with a squadron to attack the Thraciana issly Xepportago cal Replader, as Xenophon has it (Aust. II vi 2), describing the district of Selymbria. The very name of Solymbria is Thracian and not Greak. The readiness of the Thracians to raid Selymbria is well illustrated by Plutarch's account of the proceedings of Alciblades after the battle of Cyzicus (410 n.c.), when eno of his chief motives for giving easy terms to Selymerin was fear that his Thrustan contingent would get out of hand (Aleth, 30, of Xen. Hell, 1 1 21), Selymbris throve, while fighting with Thracians ar Macedonians was the order of the day, but sank under Philip of Macedonia only to courge as an outpout for the detence of Constantinople lu Byzantine days. When Anastasins I was hard pressed by the Bulgarians in 507 a.b., he built a wail from Selymbria nearly 30 miles across Thrace to Delkon on the Eurine. The last memorable siege of Salymbria was that by the Genorse against whom it was stortly defended by Manuel Phakrass Cantagurous in 1341 A.D.

II Philemon was been about 350 n.c., his death was about 262 n.c. Alexis was his senior by about twelve years.

Spina in the valley of the Po seems, like Selymbria, to have been out of touch with the main current of Hellonic culture, in spite of the comparatively ancient legend of its Hellenic foundation by Diomedes, and of a certain early prosperity witnessed to (a) by the Delphian excited by the vision of statues these Graeco-barbarians got themselves locked up overnight,-Cleisophus in the Samian temple, the Spinatan delegate in the Spinatan house. Both were from semi-barbarized surroundings and unaccustomed to the naturalistic perfections of Greek sculpture. Athenasus goes on to say that the delegate was detected and that the Delphians consulted the oracle as to punishing him. The reason for letting him off given by the oracle stamps the anecdote as an unsavoury fiction, but nevertheless its value for the present argument remains unimpaired. There may be no actual facts behind it, excepting only that it was sufficiently well invented to be current at Delphi. In a word it embodies certain accepted customs into which it weaves familiar Rabelaisian strands. Its setting, which is genuine, alone concerns this argument. Take the two stories as combined. Does not Athenneus, by grouping them together, with the Spinatan incident at the close, clearly imply that the desecration of a Delphian communal house presented itself in the same light with the desecration of a world-renowned temple like the Samian Hernoum? This means that Polemo's word raos, used for the Olympian communal houses, was based upon conceptions current at Delphi as well as at Olympia. If now we take the Spinatan episode alone, does not the selection of an official theor imply as a matter of course certain special rights of access to the treasury of Spina for each Spinatan delegate?

Other arguments are not lacking to establish the justification of Polemo in identifying communal houses with temples. The orientation of the alless Olympian treasury (XII) is that of a temple. Convenience and the relative position of the terrace dictated a southward frontage for all the other houses, and finally necessitated a change of front for that of the Geloans. At Delos and at Delphi all the treasuries seem to have been oriented with reference to the sacred way. The strongest argument however always remains the familiar one that each house is in plan a miniature temple, and this becomes practically irresistible at Olympia when due weight has been given to a recorded and very noticeable detail in the foundations of the Sicyonians house (I), which reappears, though less clearly, in the foundations of the Megarians' house (XI). There is says Dr. Dorpfeld, A II p. 41, speaking of No. I, a broadening of the foundations which is totally inexplicable. Can it not be a mere dislocation, you might ask. Certainly not, since the stones at this south-eastern corner are where they were originally

treasury of the Spinatas, and (b) by the unine Spinstieum estium borne by the southern mouth of the Po throughout antiquity and long after the day when Spina had seen its harbour sitted up and itself transformed into an obscure inland town. The mouth at Ravenna was artificially made by the Augusta fosse. North of this was the Eyedinese settion, named for the short trimitary Rhener, but also named the 'Spinstieum estrium,' says Pliny, 'ab artie Spina quan full juzza granulars, at Detphinis credition of themsels,' Of

Spina's obscurity all ordinary maps of the district of the Linguage assure un for it appears on none of them. Strabo's account (v. p. 214h) exhausts all the facts known: perafé de Bagtone til Pausépus nédicua mi à Inica, sépuis nédicus til à Inica, sépuis nédicus de Alameira partir de la littre de la litre de la

laid. No doubt on this point is possible. The idea that here is the foundation of an altar belonging to the treasury has been suggested, but such a supposition has not a leg to stand on. I venture to hope that some support for this supposition has been found, and that Dr. Dörpfeld may alter his mind in case he does me the honour of reading this paper. Perhaps he may allow the eastward splaying of the foundations of the portice of No. XI to suggest a similar altar there. Then we may note that space forbids any but a south alter for Nes. IX, X, V, IV, III, and II, and let this in part explain why all the treasuries bugged the northern verge of the terrace. We may further note that, for all we know to the contrary, VI and VII may have had eastern or south-eastern altars. Altars adjacent agree well with the general temple-seeming plan of these communal houses. Even without pressing the analogy of the temple, Pausanius' account of the house of Oenomaus (V. xiv. 7) encourages the idea of an adjacent altar of Zeus Eoscies. Here let it be noted however that there would not have been room at Olympia for an opisthodomos, supposing even that feature of the full-blown temple had been desired. For the striking resemblance of the temple and the communal house. Strabo is a capital witness. In his casual glance at the precinct of Samian Hera, he hits off admirably the contrast between the treasuries and the colossal proportions of the Heraeum there,—proportions which amazed Herodotus,33-by calling the 'treasuries' near by valorot,34 as who should say pocket-temples. The almost comic disproportion between such puny sentry-box structures and the mammoth Heraeum at Samos was fortunately reproduced neither at Olympia,-where the archaic Heraeum was of comparatively moderate size and of exceptionally modest height, while the 'treasuries' were lifted above its level by the height of the terrace on which they were built,-nor was there any such incongruity at Delos, where two smaller temples stood by the largest-though by no means large-temple in the precinct, and insensibly prepared the eye for the still smaller treasuries stationed beyond it.

Grounds have been thus far presented for consideration, sufficient I conceive to distinguish communal houses from  $\theta\eta\sigma avpol = \theta\eta\sigma avpophlakea$ , and to shew that communal houses presented themselves to the mind's eye of the ancients as temples of a sort. Evidence is now in order to shew what distinguished these communal houses from temples pure and simple, and to establish for the delegates of any city-state which had founded a treasury some special privileges of customary access and habitual resort. Obviously their size distinguished all such communal houses from temples near by and far away. This contrast was made complete by the absence in communal houses of anything like a cultus-image. Moreover, each of these houses,

<sup>≈</sup> iii 00: \*\*gès péperres \*\*ar Buss. Herodottes goes out of his way to dessant upon the Samian Herneum as one of the three 'biggest things in the world,' all of them at Samos.

<sup>34</sup> See p. 637 : +b 'Houles apxales lepde eal

reds adjus, do edo usracolhen doti, xuals di rot unidose rão draida sembour usidose, dinas usracolhem cal e at a e o e tiefo eloc unificate pão dexados rexeñe.

although seriously 35 dedicated to the god of its precinct, was primarily thought of as pertaining to the citizens of the dedicating community. Accordingly the full technical designation of the Andrians' Delian house was οίκος δυ ἀνέθησαν (=ἀνέθεσαν) οί "Ανδριοι, the name of the god being taken as a matter of course. On the Athenians' house at Delphi was written οίκος 'Αθηναίων. The single word Μεγαρέων stands on the architrave of the Megarians' Olympian house, while \(\Sigma\)ecouption is inscribed on one of the ontos of the Sicyonians' house on the same terrace. Plutarch opens his life of Lysander by saying that the Acanthians' treasury at Delphi bears the inscription Βρασίδας και 'Ακάνθιοι άπ' 'Αθηναίων, and the last words in Pausanias' chapter on the Olympian treasuries record that he saw engraved on the Geloans' treasury words to the effect that the treasury and the statues inside were the Gelouns' ἀνάθημα. 'But, he aids, 'the statues are no longer there.' This would be perfectly matched by the inscription found at Delphi: τον θησαυρόν τονδε και τάγάλματα, if only the initial word had been recovered. M. Homolle now conjectures for it the name Kulbion, although, when he held that the communal house on one of whose steps it was apparently engraved, was the Siphnians, he would have conjectured Σίφνιοι

Thus we see that a communal house, unlike a temple, required to be labelled, as it were, and that the essential word used was always the name of the dedicating community. No individual's name could permanently attach itself to a house of this kind, since Plutarch in the same breath tells of the inscription Boadloas Kai Akardios, and speaks of the building so inscribed as the treasury of the Acanthians. Herodotus also protests quite in vain that the Delphian treasury of the Corinthians ought properly to be called the treasury of Cypselus, since Cypselus was its founder (i 14). Again Pausanias is demonstrably in a confusion of mind when he says that the Sicyonians' house seen by him on the Olympian terrace was dedicated by Myron, the Sicyonian tyrant who won the chariot race in 648 R.C. Its foundations as visible are especially strengthened to bear the enormous weight of Myron's θάλαμοι which weighed, Pausanias tells us, 50 talents, or 13 tons according to Dr. Dorpreid's estimate. An inscription, seen by Pausanias on the smaller of the two, said they were dedicated by Myron and the \delta\eta\u00fcos the Sicyonians. Whatever this may imply about a former Sicyonian house. at Olympia the one which we know was ear-marked as the Sicyonians' and not Myron's.

The houses under consideration, then, being temples of a sort, and dedicated to the god, were nevertheless unique in proclaiming a sort of right of joint ownership inherent in the dedicating community. This right carried with it certain responsibilities,—charges laid upon the founders for the solidity of the fabric. M. Homolle has found, on the high retaining wall upon which was built the Chidians' communal house, commonly known as the

<sup>\*</sup> Pansanias VI xix I: 241 raptur viis Anapole Enthémostrées et dispose voi Andre appointée elors of Passanoni, unes les ont és avec forappois.

Chidians' Lesche, a marble slab, 36 bearing the inscription: Kračiov o čanos το ανάλαμμα Απόλλωνι, in characters of the third century B.C. Now Polygnotus painted the newly erected Lesche not later, but probably earlier than 467 B.C., the date of Simonides death, And so the Chidians charged themselves with building at no slight expense a retaining wall to solidify the foundations of their house 200 years after they originally built and dedicated it. We know that the Sicyonians, supposed not without good reason to have built one of the earliest of Olympian houses, planned in Sicyon their second communal house quarried, fashioned, and lettered so far as necessary its every stone at Sicyon, and finally laid its foundations in or near 450 B.C. at Olympia, taking pains to strengthen it to support the θάλαμοι dedicated by their forefathers 200 years before. We are forced to admit that similar pains were taken by the Geloaus ea. 610 B.C. when they built their treasury-chamber, and again 100 years later when they set steps around it and added on its porch It is clear then that the Cnidians, the Sicyonians, and the Gelouns continuonsly rose to their full responsibilities for the maintenance of their respective communal houses: The same may be asserted with some probability of the Andrians and their Delian house.

It is not, I submit, humanly conceivable that such responsibilities shouldered during such extended periods of time should have failed to imply and involve corresponding privileges,—privileges best indicated one would think by the intimations of joint ownership engraved as we have seen on the fronts of so many of the monuments under discussion.

But now arises the question as to why the foundation of communal houses so actively pushed forward at Olympia during the seventh and sixth centuries it.c. suddenly and completely ceased there after the Persian wars were well over. Before this question can receive its detailed answer, various minutiae, chiefly historical, require attention. Long before the awakening of pan-Hellenic consciousness among Greeks, Olympia and Delphi occupied the popular imagination as places constantly reserted to with costly gifts by the potentates of the earth, Greek and barbarian indiscriminately. This was particularly true of Delphi and of Deles; Olympia was hardly connected with non-Hellenic benefactors. Such discrimination as there came to be made between Hellenic and barbarian gifts must have grown up one would suppose in connexion with their bestowal for safe-keeping. This in turn must hange together with the springing up of local treasuries at Delphi and elsewhere, Delos,—directly accessible from Asia by the sea,—yields the only instance of a non-Hellenic treasury, in the Delian οίκος Λυδών. Great as were the Delphian privileges of Croesus and the Lydiaus (Hdt. l. 54) there was never at Delphi an oleos Avôôn. At Olympia the barbarian appears never to have received any analogous recognition of any kind. Barring the single exception,

<sup>24</sup> See Frant's Pausinias, V. pp. 357 II.

E See H. Brunn, Genchichte des Griechtschen Kunntler, it, pp. 11 f., where it is observed that Simonides may have written the lines quoted by Plutarch, De Difects Grandbrum (ch. xivi,

p. 447) while in Sicily. This is possible but rather forces the situation. It seems more likely that Simonides wrote the lines at Delphi, and saw the paintings there before his departure for Sicily in 477 s.c. or earlier.

then, of the Lydians' house at Delos the privilege of building and dedicating a communal house at Delphi, Delos, or Olympia was exercised solely by Greeks; but only at Olympia were non-Greeks completely out of court, so to speak, from the very beginning,-only at Olympia was the new-tireece of the era of colonial expansion overwhelmingly preponderant in the matter of founding communal houses. At first however the founders were not Hellenic δημος, not communities, but potentates or tyrants. Myron of Sievon and Cypselus of Corinth, who should perhaps be placed a little before Myron, were among these early builders of treasuries, when treasuries had not yet developed into communal houses. The fact that Cypselus of Corinth built a Delphian treasury which was afterwards appropriated by the people is established on the most solid of evidence, and upon this fact, as commented on by Herodotus, Piutarch, and Pausanias, chiefly depends our knowledge of a transformation in the use of the buildings under discussion which deserves to be recognized and viewed in all its bearings; the more so because this new fact may clear away many obscurities still hanging about the various designations, alike in technical and in current speech, by which these monuments were known to the ancients.

The name θησαυρός, which in the main should be associated with the communal houses at Delphi, and not with those of Olympia and Delos, perpetuates the lingering idea of a sort of individual and personal ownership, Until it was formally appropriated by the Corinthians, the Corinthian treasury at Delphi was not the Corinthians' treasury, but the treasury of Cypselus. This last became the communal house of the Corinthian onus. only after the Delphians, upon formal summons from the Corinthians, rebaptized it. This rebaptism was not a mere question of name, but involved a new use under an altered and broader religious ideal more or less democratic. To designate a building used in this way by a community, we have the sacral term ofker as employed consistently in Delian inventories.88 The Delian θησαυρός was, as we have seen, a money-box pure and simple, aloog being the invariable term for a communal house. If now we turn to Aristotle's Politics, we find him using the word olvos in just the sense of the Delian inscriptions. He gives, in sketching the progress of democracy as a counsel of democratic policy made perfect, the multiplication of tribes and phratries and the collecting together of many private sura into a few private centres, which he calls of wor. 10 Precisely what Aristotle had in mind may, I conceive, be gathered from an inscription " which Michel dates about 300 B.C." It was found on a slab of bluish marble built into a house in Chios, and relates to the affairs of the Chian poarpla of the Clytidae. Originally aristocratic

\* Ditt. 571, Michel, Recent of Inscriptions Greeques, 997.

<sup>\*\*</sup> Heavehine, confining together the meanings of both words, yet vaguely recognizes the Delian secret form elect = θησαυρός where he says: θησαυρός είε άγαλμότων και χρημάτων διερών άποθεσεν σίαυν.

<sup>&</sup>lt;sup>50</sup> VI, p. 1319h 11. 19 ff : φολαί τε γάρ δτερα: ποιοτέαι πλείσου και φρατρίαι, και τὰ τῶρ

iblus lepur ousacreor siz aniya sai noted.

<sup>4</sup> Dittemberger describes its characters as: \*Litterse volgares disposites everypoon, while Michel places the inscription towards the end of the fourth century, a.c.

only, this phratry enrolled humbler members who finally rebelled against the customary housing of the lepá in the olkias or private dwellings of certain members. This inscription provides by decree for building a consecrated communal house in the precinct of the Clytida (olkov repersor) and for the transference thither of the common lepá from private dwellings." A clause reciting the religious grounds of this decision then follows: 'Whereas sacrifices made have proved favourable to building and to the transference of the common sacra to the communal house.' Then follows a recital of the sacrifice: The Clytidae voted [on a given day] to sacrifice as to whether their sacra, now in private houses, must be transferred to the communal house which they have built in obedience to prophetic command simply as heretofore on the day of the sacrines; or whether they must be permanently deposited in the communal house, and the sacrifice pronounced in favour of the latter course.' Then follows a mandatory decree requiring surrender. sanctioned by a fine of 1,000 drachmas forfeited to Zeus Patroes, and by legal excommunication, ending with provision for a record on a stela to be placed at the entrance of the new olker.

Although the term θησαυρός, surviving from the time of Cypselus, prevailed at Delphi, M. Homolle's inscription from the Delphian treasury of the Athenians 48 implies recognition even at Delphi of the inconvenience practically resulting from ambiguity in the use of the current Delphian term. The same recourse to olkos for Delphian treasuries appears in the Plutarchian De Pythias Oraculis, " where the well-worn theme of the curse of Moline and the exclusion of the Eleans from the Isthmian games is taken up controversially in connexion with the episode of the rebaptizing of the treasury of Cypselus to suit the Corinthians. This drawn battle of the antiquarians of antiquity shows incidentally in the Plutarchian text that the professional Delphian guides found the term oleog less confusing for their own very practical proceedings than the popularly current term byoaupox. It serves also to bring out what a large place in the popular imagination was filled by tales of the munificence of Cypselus at Delphi and Olympia. Above all it furnishes new evidence tending to shew that such currency as the term ofxos = \$\theta\sigma\cop\text{avpos}\text{ eventually gained at Delphi has to do with a very real alteration in the status of all treasuries so-called. These under a democratic dispensation throughout Hellas became communal houses in which each member of the founding community had his share, at least sentimentally, and really, if ever he appeared at Delphi or Olympia.

The characteristically Olympian term vaos = θησαυρός = οίκος remains to be finally considered. A certain, although a limited currency for it is

<sup>&</sup>lt;sup>41</sup> [le +û·] replera [rūs K]Auribūs [s]kos repleror ispār ol[ko]boutraufan sa) vā lepā vā norā [in] vūr ibiutinūs olnus els tās ne[ir]ās olnus irejanis.

Abereins are cited as occurring in an Athenian decree inscribed upon the treasury. Another

discree is cited where occur the words engaged;

<sup>44</sup> Cc. XII, XIII, and XIV (a). But note that in the middle of c. XIV Phillinus reverts to the term \*granges for the same \*treasury\* of the Corinthians, which everywhere also in the dialogue is called the class Kaparéles.

vouched for not only by Strabo's term valorot, already enlarged upon, but also by Pliny's use of the Latin equivalent of vacy (aedes) for throaupos in a passage to be discussed anon. But the great authority for its use at Olympia is Poleme as circumstantially quoted by Athenaeus. Note that the Delian inventories could not, if only for the sake of clearness, use this Olympian term ruos. For along with the contents of their olsos, they register those of at least three temples (east), (a) the Artemision, (b) the temple of Apollo, and (e) the temple of the seven statues (rews of ra emra). Even as it is, there is some confusion in the inventories between temples and communal houses at Delos. That Polemo, an acknowledged expert in regard to treasuries," regarded vaox as an especially Olympian term seems likely from his using θησαυρός of the Delphian house of the Spinatal in a passage already discussed, whereas he speaks of the Metapoutines' and the Byzantines' Olympian treasuries as pais Merawortivov and pais Bulartivor.40 That he uses just this and no other term quite advisedly on this occasion is shewn by the end of the very passage in question. After a list of notable things stored in the 'temple' of the Metapontines, followed by a similar list for the Olympian temple of the Byzantines. Polemo's final clause begins: ev be ro ναῷ τῆς "Họας τῷ παλαιῷ. The Herneum, that is, and the treasuries east of it, are all designated by the term ruos.

Dismiss now the further discussion of various names for communal houses, and glance at the information as to what the communal houses contained to be derived from the passage just considered. Polemo mentions mothing in the Metapontines' vaos except a number of silver vessels such as would be in use for the ceremonial observances at Olympia in which Metapontine theors as such would inevitably take part. The same is true of the Byzantine inventory that follows. Some weight may, I think, attack to the fact that this quotation is given as continuous. Although Athenseus introduces it in a discussion of queer-shaped cups and would have cut out the mention of other things had many such been there, no such curtailment has apparently been necessary. One notable item in the Heraeum is the golden κρατήρ characterized as Κυρηναίων ἀνάθημα. Why was this not deposited in the Cyremeans' house on the terrace near by ? From this and other evidence the suspicion arises that, apart from such silver plate as was necessary for ritual purposes, local gifts of especial value would be stored in the Heraeum,—a far safer place and a surer treasury than any one of the eleven communal houses on the whole terrace. It is indeed easy to overstate the local character of the local treasuries. Herodotus " speaks of six golden mixing bowls (κρητήρες) dedicated by Gyges at Delphi, and stored in the 'treasury' of the Corinthians, where was also the magnificent censer dedicated by Euclibon of Cypriote Salamis. He relates that the bricks of

Plutarch, Syptymiae V ii: τοῦς δὲ Πολέματος τοῦ 'Αθηταίου περί τῶς ἐν Δελφοῦς θηεπορῶν αἶμαι ὅτο παλλοῦς ὁμῶν ἐντυγχάσειν ἐπιακλές ἐστι, καὶ χοḥ πολυμαθοῦς καὶ νὸ τουτάζωτος ἐν τοῦς Ἑλλητικοῦς πράγμασιν ἀκθρός.

See Athenneus 480a; the whole passage comes apparently from the 'Exaction's Adves, regarded by some as an epitome of a more extended work of Polema.

<sup>#</sup> i 14 and 50 . lv 162.

gold sent by Croesus were stored in the cella of Apollo's temple. When the cella was burned, the golden lion that had stood on these bricks being damaged was stored in the Corinthians' treasury near by, but apparently the gold bricks were not put there. Pausanias mentions a box-wood statue of Apollo overlaid with gold,-an offering of the Epizephyrian Locrians, but stored in the Sicyonians' treasury,—and notices that the Eleans have removed the cedar-wood Hesperides executed by Theocles, son of Hegylus, from the Epidamnians' treasury to the Heraeum. Likewise he reports that the Athena from a group in the Megarians' treasury and been removed to the Heraeum. A community having its communal house at Olympia or Delphi did not as a matter of course deposit all its offerings there. Whatever disposal was made at the outset was plainly subject to alteration by the Eleuns and the Delphians, on whom rested all responsibility. These facts confirm an impression, already borne out by evidence of other kinds, that the primary importance to a community of its communal house at Olympia or Delphi was as a headquarters and a ritual rendszoons, -a place where certain needful utensils " were stored in readiness for use " by the official delegates. Not every apxilewpos could command Nicias' wealth, " nor could Athens even depend always upon having a spendthrift Alcibiades, determined to win power by magnificence at Olympia or Delphi.51

All these conclusions are circumstantially confirmed by the Delian inventories. The contents of the 'Arδρίων οἰκος are there inventoried during a series of years. Under Charilas (8.c. 269) it is a storchouse simply containing δεσμούς μεγάλους... ὁβελίσκους χαλκούς... ἀσφαλτου. In the earlier inventory of Sosisthenes (279 в.с.) it is not mentioned. In в.с. 250 it contains much plate, the list of which is followed by mention of timber. In 180 в.с. ivory and an accumulation of tin labels appear along with plate. The Andrians house may have been built at the time of the revival of the Delia in ε.c. 476, possibly earlier, and can landly have stood empty until the ἐεροποιοί used it as a storehouse and deposited plate there. We may then surmise that it always contained the plate and other ritual appurtenances of the Andrians, for which possibly the ἐεροποιοί were not accountable, and which they, therefore, do not mention. Among the pieces

<sup>&</sup>lt;sup>40</sup> Leat it be maintained that articles of plate, ourse dedicated within the precincts, were invariably regarded as withdrawn from further use, comider the loan made to the Segurians of pidkay we sai alwaysas from the temple of Aphrodite at Eryx, Th. vi 46, 3.

<sup>\*</sup>Such sacred reseals abounded in the Parthenon, but those for deputations abroad were probably kept in the Pompetom (Paus. I ii, 4) sketöjanan & παρασκεύν των παρασκ. — κατάς which might apply to any one of the Olympian or Delphian treasuries. It seems not unlikely that Olympian delegates from the 'home counties' (Arcadia and Elis) would find similar vessels stored for their use in the Olympian delegates.

pins Prytamium, unless they simply brought them along from home. In any case it is a striking fact that there is no truce or record of such a thing at Olympia as an Arcadian treasury of any denomination.

<sup>&</sup>quot; Pintarch, Nicias iii.

<sup>&</sup>lt;sup>26</sup> ΟΙ γάρ Έλληνες καὶ ἐπέρ δύναμο μείζα ἡμάτ τὸν πόλιν ἐνόμονον τῷ ἐμῷ διαπρεπεί τῆ s Ὁ λυμπίας ἔς ωρίας, Τh. vi 16, 2.

<sup>&</sup>quot; ξόλα δρότεα, κέδρινα, πτελέτεα.

<sup>□</sup> εβένου όλεξ μεὰ ΔΔΔΔΠΠ. ελέφαντες σκοτάλοι
ΔΠΠ. κασσετέρου σκοτάλοι. Inventory of
Demailes, II. 165–170.

of silver plate which they do specify sometimes giving the donor's name, certainly not one 34 is attributed to an Andrian donor. The intricate history of the rees of the existence under Athenian management of a communal house at Delos for the Delians, certainly favour the view that some foothold upon the sacred precinet, some home-plot or building was very convenient and almost essential for those called upon to perform, in the name of a community, definite ritual acts. Thus the conclusion is justified that the communal houses at Olympia and elsewhere lost in a great measure their characteristic function as θησαυροφυλάκια when they became communal houses, instead of belonging to individual magnates like Cypselus and Myron. Then they ceased to house anything that might more safely be kept elsewhere, and their only constant store consisted of ritual appurtenances, chiefly plate, needed for use by their local theors. This transformation in their normal use tended to accentuate the points which they had in common with temples, points somewhat insistently dwelt upon in this account.

Just here may rightly be discussed the reasons for thinking that the so-called Lesche of the Caidians at Delphi was a treasury, the treasury of the Caidians mentioned, but not located, except by negative implication, in Pausanias. This author clearly locates the Sicyonians' treasury (X xi 1), now recognized as represented by foundations just adjoining and below the debatable site. He then names Caidian statues, and says that the Siphnians also built a treasury (X xi 2) for reasons which he analyses. Next he mentions Liparnean statues, and digresses into some account of the Liparneans as colonists from Caidus (X xi 3-4). After this comes his mention of the Thebans' and the Athenians' treasuries, coupled with an analysis of their respective motives in founding, and of the sources from which the required moneys were derived. After this, and nowhere before, the treasury of the Caidians occurs to our author, who says he is at a loss to make out whether the Caidians founded it to glorify some victory, or from a desire to make a

Asclepiades of Chias figures twice with the πόλιε τών Κώων, Antipater of Cyrene, Timecrates, son of Antigomus, Antipates and Stratonics, as well as one Medeius, των έγ νήσου. If the community of Cos could have its φαίλαι stored in the Antirians' house, why not the Andrians i

See M. Honiolle Comptes des Hittenses Deliens (B.C.H. 1882). Offerings were put on the simm footing with other treasury assets,—this might account for the absence of any mention of hypothetical Andrian plats which would not appropriately figure as offerings, since it was stored for use by the Andrians,—and accounted for by the ispersaci na bestowed (A) in the imple of Apollo (Applies sees or oless), and (B) is other buildings sometimes (swer, but sever more than four in number:

<sup>(</sup>a) the reas of ra seri ('Administ reas), (b) the Astemision, (c) the xxxxobien, (d) the temple of Ellithyin. The Analar olass and the Nuffer offer ligure on the inventories as more stornhouses. This need not however have interfered with their use by the home deputations at the time of the festival. Considering that the Athenraus came in 478 m.c., not as politically supreme, but as Amphietyom, and preempted the sads of ra ford (which they re-mined the Auquaise resis) for their yearly offerings, an an unalous position in their own home-sanctuary was created for the Beltana. This is no doubt indicated by the mention in inscriptions of the Anties sleer, used by the Deliam for a Pempeium, but only, be it remarked, while the Athenians had charge of the sanctnary,

show.50 If the rule applied with success at Olympia is strictly followed,-if that is we take the order in which Pausaniaz mentions these treasuries to be the order in which he or any visitor would come upon them, then the Cuidians' treasury must be higher up, and that of the Siphnians lower down than the Thebans' and the Athenians'. This forces us to assign the remains next above the Sicyonian foundations to the Siphnians' treasury, for the gorgeousness of which, as vouched for by Herodotus, there is indeed no site left, if we disregard our well-tested rule, and oust the Siphnians to make room for the Caidians out of their turn. Moreover, everything about the treasury belonging to these debatable foundations, as restored, speaks of Ionic, not of Doric taste and style, while the Chidians were Dorians. But now the question arises: Where according to our rule for interpreting Pausanias can the Cuidians' treasury have been ! Immediately above the Thebans' and the Athenians treasuries unquestionably. Unfortunately there is no space available, for the temple of Apollo immediately adjoins them on the north, and foundations older than the Unidians' treasury can have been occupy the other sale,—the side where is the Thehan treasury,—of the sacred way. Indeed this side is for the most part too precipitous to allow of the founding of any building there. Above, and east of the temple of Apollo, lies the socalled Lesche of the Unidians, answering fully, if any building of antiquity did, to Pausanias' notion of a fabric reared es emideetiv. It was in fact, from the moment of its erection the show building of the whole Delphian

Now in what terms does Pausanias name this building whose current name of Lesche, as understood by Mr. Frazer to mean a 'Club-house,' covers the notion of the communal house (thravpos) as a renderrous with such fatal completeness as to exclude the equally essential idea that a treasury was a temple of some sort ? Pausanias does not call it a Lesche (λέσχη), but mentions it as οίκημα γραφάς έχου τουν Πολυγνώτου, ανάθημα μέν Κνιδίωυ (X xxy 1). What can be the nature of a chamber thus formally consecrated within his precinct to Apollo? Must it not be a bygazopos, i.e. not a clubhouse or rendezvous only but also a temple in some sort? The sense attaching to the word of knua in a justly celebrated passage of the eighth Book of Herodotus " certainly forces this meaning upon οἰκημα when we find ἀνάθημα in apposition with it and know that the fabric thus described was within the sacred precincts of Delphian Apollo. Such a consecrated chamber would be only the more appropriately used as a lepos olkos or a repevios alkos for the assembly of members of the community dedicating it, if like the one in hand it was adorned with the most perfect paintings of Polygnotus.

So far had my argument progressed in the attempt to identify the

X ix 5: of hi byganpol Onβalov and Ipyon των ix πόλεμον και 'Αθηναίων διαύτως: Kribiour hi nis olda el én vien του ή ele énlêmbre φκοδομάσαυτα.

It occurs in the selemn message entrusted by the Athenians to Alexander for delivery to

Mardonins (viii 144): first among would emmeyala diasologers standing between Athenians and althraim to Persia,—even supposing them eager for it,—are ray beds to dydlamera salt doff harra emergeoméra to sal structuraments.

so-called Lesche of the Chidians with the treasury of the Chidians, when I chanced to turn up in Harpocration the well-known account of Polygnotus, consisting of a quotation from Lycurgus in To wept with lepelas. There I was astonished to observe that in the story of how Polygnotus obtained Athenian citizenship because he painted for nothing the Stoa Poikile, or, as others have it, the pictures er τῷ θησαυρῷ καὶ ἐν τῷ ἀνακείῳ; all editors and commentators agree, with no shadow of MS authority to support them,in rejecting the MS, reading θησαυρώ and in substituting either έν τώ Θησείω or έν τω Θησέως ίερω. But this emendation, irrespective of any views about the Lesche at Delphi, has awkward results to which Brann and others have not given heed. Indeed they seem pleased to give Polygnotus credit for work in the Theseum categorically attributed by Pausanias to Micon and Micon alone. They are also called upon to explain away or circumvent the following words used by Pliny of Polygnotus: his at Delphis acidem princit (xxxy 35). Mr. Frazer however is too straightforward to undertake this, and the same is true of Miss Sellers (Mrs. Strong) in her commentary on Pliny. 'Pliny' says Mr. Frazer, mentions the paintings of Polygnotus at Delphi, but seems to suppose they were in a temple. 38 On the other hand, Witschl says of Polygnotus' paintings in the Lesche: 'At Delphi where, as above supposed' (in a preceding account of Polygnotus' paintings in the Lesche) he did his first work, 29 Polygnotus also painted the temple 100 upon which Aristoclides also did some work, " But Pliny, buying said (xxxv 31) that Aristochides frescoed the temple of Apollo at Delphi, cannot conceivably have meant the same frescoes in the same temple, when he goes on to say (xxxv 35) that Polygnotus painted a temple at Delphi. He can only have been using actem in the sense in which Pausanias uses οἶκημα, ἀνάθημα τῶν Κνιδίων to designate the communal house or treasury commonly called the Lesche at Delphi. Thus it appears that the unassisted labours of Micon in the Athenian Theseum are credited to Polygnotus, whom we must suppose Micon merely to have assisted, solely because we cannot allow Lyeurgus to have spoken of the paintings at Delphi by Polygnotus as he did, when he said they were έν τῷ θησαυρώ. The Lesche of the Chidians must not be confused,

<sup>&</sup>quot; Frame's Pausenius V. p. 350.

<sup>&</sup>lt;sup>10</sup> In Pauly's Ecol-Encyclopacity (1848) x.v. Polygnatus.

Witschl here refers to Pliny xxxv 35: His at Delphis sedem pinxis, the allianou being to the paintings of Polygostas in the Caldians' treasury, nicknamed Lesche.

er Witseld beer cites Pliny xxxv 31 : Ariatoclides qui pinxit audem Apollinis Delphis, the allusion being to the main temple at Delphi.

<sup>\*\*</sup> Lyenrgus, so quoted by Harporntton, evidently gathers up, without sitting them, two conflicting ramours explaining why Athenian citizenship was conferred on Polygootus: (a) feel the Resilve grade (the Stea Eleutherius, see Gardner's Athens pp. 389 f.) \$798\$\* \*\*poiss.

<sup>(</sup>b) As Freque, rat do to surrouge (the Delphian "Lesche") and of heavily (the temple of the Dissecre, Gardner's Athens pp. 97 and 393). Even thuse trepm, who were doubtless muddleheaded gossipa, were dimly conscious that painting gratis for the Chidians would lardly earn the gift of vitizmship from the Athenians, and threw in the paintings in the temple of the Diescari at Athens, working Polygnotus rather hard even for each a high human. Or again they may morely have mentioned the Delphim "Lesche" by an incoherent trick of abort-band speech, as the place where Polygrouss ston his spun,-the regutation on the strength of which he got the chance of painting the temple of the Disserri.

that is, with a treasury; rather than do this we must deprive the Siphnians of their treasury, giving it to the Cnidians who are thus endowed with a treasury and a Lesche as well at Delphi, -an unparalleled instance of liberality and piety for a people of such comparatively secondary importance and resources. Again, although nothing could be simpler and more straightforward than Pliny's statement that Aristoclides painted the temple of Apollo at Delphi, while Polygnotus painted a temple at Delphi,—using here asdes of the Cuidians' Delphic treasury just as Polemo uses vaos of the Metapontines' and the Byzantines' Olympian treasuries,-Witschl insists that the two places decorated (the ardem and the acdem Apollinis) are one and the same, This is indeed applying in Polygnotus' favour the principle that to him that hath shall be given and from him that hath not shall be taken away even that which he hath: for Micon and Aristoclides es are each deprived of the credit for their only unassisted work, of which mention has been preserved. Such a proceeding is plainly madmissible, and therefore there is no choice but to respect the texts that have come down to us both in Pliny and in Harpocration. The sole recorded work of Polygnotus at Delphi was done in the treasury par coellence, namely the Lesche of the Cnidians so called. No other treasury could be so designated when painting was the theme in hand, for the Lesche is the treasury adorned with paintings; we know of no other. But this treasury, like all its mates, was a consecrated building so near in its use and estimation to a temple that Pliny only used a designation current among careful writers of Greek, when he called it a temple.

I have left until now the last clause (the & clause) in Pausanias general account of the Childians' consecrated chamber. He characterizes the chamber as άνάθημα μεν Κνιδίων, but proceeds to say by way of antithesis, καλείται δε υπο Δελφών Λέσχη. According to him then it was not the Lewise of the Cuidians but the Lesche of the Delphians. Moreover, he plainly regards this Delphian nickname of Lesche as requiring explanation and even extenuation in view of the sacredness of the fabric, for he immediately gives, as an attenuating circumstance, the Delphians reason. They called it Lesche because from of old they met there and discussed not only solemn questions of moment, but also all sorts of mythological niceties.68 For the full meaning of Pausanias' explanation however we have fortunately neither far to seek, nor are we dependent upon imaginative conjecture. Just such a Delphian holiday of talk about matters serious and more especially concerning all manner of mythological inventions is held in the Delphians' Lesche,—the Unidians' communal house—by the interlocutors in Plutarch's De Defecta Oraculorum. Let me then close by offering the stage setting of this musterpiece of latter-day Hellenic literature as the fullest justification alike of my contention that the Lesche of the Chidians

Apollo at Delphi.

<sup>&</sup>quot;It is noticeable that Brunn, who does not commit himself expressly to Witschl's wresting of Pliny's words in favour of Polygnotus, nevertheless suppresses all mention of the paintings by Aristoclides in the temple of

<sup>&</sup>lt;sup>64</sup> Χ πεκτ 1: δτι ένταθθα συνώντεν τὸ άρχαζον τὰ τε υπουδαιότερα διελέγοντο καὶ όποσα μυθώδα.

is another name for the Chidiana' treasury at Delphi, and of the definition of a treasury as a holy meeting-place or headquarters for those occupied with ritual service,—a sort of temple.

In the year 83 A.D., and on the eve of the Pythian festival, Lamprius and his company at the entrance of the Delphian precinct stumble on a meeting,-likened to that of the fabulous birds on the oudatos,-between Demetrius from Britain, and Cleombrotus from the shrine of Zeus Ammon. These two join Lamprius and his friends, and all walk in a body up the sacred way talking as they go. In the desultory course of talk, Lamprius asks Gleombrotus of the oracle he has just visited. Was it also silenced, or did it still give answers? Cleombrotus hesitates, and Demetrius helps him out by raising the general question about all oracles, especially about Bosotian oracles. Meanwhile, journeying up the sacred way, they had reached the portals of the Lesche of the Cuidiuns, which they entered. Friends were sitting there rather bored and sleepy, and Demetrius said : You had better be glad to see us, glad too of our subject of talk stumbled upon by the way. It is appropriate to this place, and in fact concerns everybody, since it involves the god. So do not begin with wry faces or give way to contentionsness.' So saying, he and his friends found seats, and he gave them all the question about the oracles. Up started then Didymus the Cynic, in high dudgeon against shameless ways of wicked men, who abused oracles parading the badness of their hearts in guilty questions. 'No wonder oracles are dumb,' he cried, banging his stick twice or thrice upon the floor, 'the wonder is they have ever spoken. He was going on, but Heracleon plucked at his gown, and Lamprias, being a particular friend, expostulated; 'Do observe the festival truce, keep the peace with your enemy Human Depravity. Didymus said not another word but walked straight out and away.

Ammonius shocked by this episode criticized Didymus and his logic, adding optimistically that more Greeks in the past had required more Quite enough were left for a sailly diminished population. Dissent followed, and talk of providence and how to use oracles aright, Heracleon, who had been the foremost in suppressing the departed cynic, finally said, addressing Philip à propos of Cleombrotus' ingenious notion that not gods but balmores had charge of oracles: \* Philip, now that we are well rid of profane and uninitiated fellows and their crude notions about the gods, let us walk warily and not be let in by the discussion for silly and exorbitant admissions.' Cleombrotus opened his eyes at this, and pulling himself together told the tale he had heard from Aemilianus, who was neither silly nor exorbitant, but the son of his old schoolmaster,—the wonderful tale of a voice sounding at eventide over the sea and bidding men in a passing ship to bear on the tidings that the Great Pan was dead. Demetrius in his turn now rose to the level of due seriousness with his tale of mysterious islands full of ghosts. But Cleombrotus inclines to quiz, and invents a wise man from the far east who has informed him that the gods are departed to other worlds, of which there are many.

Heracleon, consistently serious, demurs, and Cleombrotus is gently snubbed, Demetrius then declares that they have had quite enough of aidea. Accordingly, Chapters xxxiv-xxxvii, which follow, soar into abstruse mathematical discussions of the plurality of worlds. The original argument is then resumed, and Lamprias is pressed for his recent experiences at Lebadeia, 'You have heavers who are at leisure,' says Ammonius, anxious to track down the truth and eager for light. No breath of jealousy or contentiousness stirs among us, we are tolerant you see and sympathetic; pray then let us hear you. Then follows a final justification of oracles with an explanation of their latter-day silence, which expands into a wider theme, the opposition between religion and science. This last topic is however approached by means of an illustration from the painter's art, which causes the whole assembly to turn attentive eyes to the paintings of Polygnotus by which they were surrounded. Thus definitively does the writer of the dialogue contrive at its end, as when it began, to advertise to his readers the fact that the speakers were in a temple and within a sacred precinct. The temple was the consecrated chamber or communal house dedicated by the Chidians-the Cnidians' treasury at Delphi,

LOUIS DYER

## THE TWO LABYRINTHS.

## [PLATE XIV.]

φασί δέ τινες και του Δαίδαλου είς Αίγυπτου παραβαλόντα, και θαυμάσαντα την εν ταις έργοις τέχνην, κατασκευάσαι τῷ βασιλεύοντι τῆς Κρήτης Μίνωι λαβύρινθον όμοιον τῷ κατ' Αίγυπτου.

Diod. Sic. i. 61.

PERHAPS the most salient feature of the recent development of knowledge in regard to prehistoric Greece is the peculiar connexion which has been shown (chiefly by the discoveries of Dr. Arthur Evans) to have existed between the oldest Greek culture and the ancient civilization of Egypt. As far back as the time of the Hyksos and the XIIth Dynasty the connexion is certain. We now know that during the XVIIIth Dynasty (seventeenth to fifteenth century B.C.) Egypt maintained regular relations with the Cretan Mycenaeans of the great period of Knossos and Phaistos; the 'Late Mineau' period of Evans. This much the incontrovertible evidence of the Egyptian tomb-paintings at Thebes has told us, to say nothing of the numerous pieces of minor evidence from both Greece and Egypt. The corroborative evidence of the alabastron-lid of the Hyksos king Khian, and the figure of the Egyptian Abnub (who certainly lived during the Hyksos period), which have been found at Knossos, take us two centuries or more further back; and the remarkable parallels between the Cretan scaldesigns and the Egyptian scarab-designs of the XIIIth Dynasty, which Dr. Evans was the first to point out, show as that the connexion was older than the days of the Hyksos. The Egyptological literary evidence on the subject indicates that the Egyptians had dealings (often of an unfriendly kind) with the scafaring peoples of the Mediterranean certainly as early as the XIIth Dynasty (Middle Kingdom), possibly as early as the VIth. But now we are pursning the voyage of discovery into remote and little known seas, so that progress must be slow and cautious, and careful soundings must constantly be taken. The Egyptian literary evidence of knowledge of the Northerners (Ha-nebu) under the Ohl Kingdom (up to about the twenty-fifth century B.C.) is of the scantiest and vaguest character, and can be made to mean almost anything the investigator wishes. The archaeological evidence is also very scanty, but, such as it is, it must be said that it is not vague, and that such

hits of evidence as the finding of a very primitive Egyptian stone vase and a fragment of a IIIrd-IVth Dynasty diorite bowl at Knossos and the remarkable analogy of the light-blue Knossian glazed farence to the similar farence of the earliest Egyptian dynasties, make it impossible to deny off-hand that any connexion between Greece and Egypt existed before the XIIth Dynasty For the XIIth Dynasty it is certain, however we may square the apparent contemporaneity of the primitive Amergian cist-grave period in Crets and the XIIth Dynasty? with the equally apparent contemporaneity of the 'Middle Minoan' (Kamares) period in the same island with the same dynasty,3 For the earlier period the evidence of the faience is striking. In Egypt the light-bine faïence is characteristic only of the early dynasties, and of the XXVIth, the Saite age of the seventh to sixth centuries a.c., whose potters archaized in this matter of glaze just as their sculptors archaized in the style of their reliefs. In Crete it is characteristic of the early Minoan period. This is certainly, when taken in conjunction with the other evidence, in favour of the contention that the connexion between Crete and Egypt went back further than the time of the XIIth Dynasty. Of course the preference for the light-blue glaze may have lasted in Crete when it had died out in Egypt : but the diorite fragment and the primitive vase from Knossos, which were imported Egyptian objects, not copies of Egyptian technique, are witnesses for a connexion under the earliest dynasties. It cannot be maintained that these two objects were imported a thousand years after the time of their manufacture. The ancients did not collect antique 'curios,' at any rate not till the time of the Saites in Egypt, and the Romans in Europe. It cannot be conceived that to a Keftian of the time of the XVIIIth Dynasty Egyptian objects of the days of the Third and Fourth Dynasties would have been of the slightest interest, any more than they would have been to an Egyptian of the same period. Dr. Evans and Prof. Petric also connect

<sup>1</sup> See Evens, B.S.A. ir. p. 62 f.

Fixins, Piccorrapies, p. 195 ff. These Agins Oncuphrices searche cannot be earlier than the XIIth Dynasty. If they are not XIIth Dynasty, they can only be early XVIIIth. And this would agree still less with the probable date of objects with which they were found. We can hardly assume that not nearly in the islamis, but in Crete if self, and within a stone's throw of Phainto, there existed at the same time as the fully developed Minean civilization a tribe which retained the culture of the sub-Needlithic period.

Petric, Mohan, Fl. I. Dr. Mackennic says (Phylocops, p. 261) that the polychrome (Kamares) wave from Crote found in Egypt is 'assigned by Flinders Petric is view of all the evidence to about 2500 a.c.' In view of the evidence from Crote it is true that the contemperametry of the Kamares wave formit at

<sup>&#</sup>x27;Kahun' with the XIIth Dynasty town of Het hetep Sengares seems extremely probable, but when the polychrome fragments were found. their discoverer was by no menus convinced of their early date. On p. 43 of Kalon he says : 'As they (the fragments of foreign pettery found at Kahun) were none of them on the floors of the chambers, or in unequivocally early positions, they may be later introduced and dropped by chance passers, and some are aliment certainly late.' Cr. also p. 31. It was in view of this uncertainty expressed by Prof. Petrie that four years ago I classed the Kahum evidence as weak (delet Caritization, p. 67). But our present certainty that the polychroma ware was fir use in Crote at a date long antarior to the Great Palace period (Third. Phylakopi), which was contemporary with the XVIIIth Dynasty, shows that Prof. Petrie's. doubts were probably not justified.

certain bowls and vases of black pottery found at Abydos and dating to an even more remote period (Dyns, L-II.) with the late Neolithic black pottery of Knosses 1; but here we seem to be dealing with stuff less markedly characterized than light-blue glazed pottery, and the stone bowls and vases of the Old Kingdom, which are unmistakable. Prof. Petrie further maintained that in the boats depicted upon the Egyptian vases of the praedynastic period we ought to see the actual sea-going galleys in which the primeval commerce of the Mediterranean was carried from Egypt to Greece and vire versal, but it must be said that this conclusion is by no means probable or in the least justified by the appearance of the boats in question; they are quite evidently but ordinary Nile-boats, the prachistoric ancestors of the dahabiyas and felukas of to-day. They have deck-shelters just like the model funerary boats of the Middle Kingdom tombs, and they carry women on board, and on one vase a woman is denicted wailing, with her hands above her head; it may well be that they actually represent the ferry-boats of the dead. They carry purely Egyptian emblems. Now we know of the Egyptians that they were never scafarers: they disliked the sea, and they held the scafaring inhabitants of the Delta-coast in abomination; it was never the Egyptians who went to Crete in the early days or later. Just as the Milesians came to the Nilemouths in the eighth century, so the Keftians had come to Egypt in the sixteenth, and the Ha-nebu in the old time before them; but as far as we know, no Egyptian ever returned the compliment, unless driven from the Palestinian coast by stress of wind and waves." So that if we ever find Egyptian representations of the ships that took the stone vases of the early dynasties to Crete we shall see that they were neither Egyptian nor carried Egyptian emblems. And as for the ears of the prachistoric boats, the Nile-boats had many oars. Finally, these boats are represented amid ostriches, oryxes, mountains, and palm-trees: that is to say they are sailing on the Nile, with the desert-hills and their denizens on either hand.

But, although we do not know what the ships were like in which this early commerce between Egypt and Europe was carried on, we have enough evidence to shew that this commerce had existed for centuries before the 'Palace' period in Crete, when the Keftians brought gifts to the court of Hatshepsa and Thothmes III at Thebes. When Dr. Evans publishes Knossos in full we shall find all this evidence marshalled in order, and with the distinction fully marked between the evidence which points to a mere general sea-connexion and culture-exchange between Egypt and Crete, and that which seems to indicate something more, possibly an ultimate common origin for the Egyptian and Aegean civilizations. Meanwhile, further corroborative evidence may be sought, and one point which seems to bring certain

\* Petric, Myder ii. p. 38.

CVellization, p. 321). But he was cast away on Cypros only and the ship he sailed in was Phounician. There were no Egyptian merchant-ships on the 'Great Greau' sea

Egypt and Early Europe (Trans. R. Soc. Lit. xiv. p. 61).

<sup>\*</sup> Like Centainen, the Egyptian envey to Phoenicia in the eleventh century (Older

architectural ideas of the Minoans into connexion with certain similar ideas of the XIIth Dynasty Egyptians may be worth raising.

This point arises in connexion with the probable resemblance of the Egyptian and Cretan Labyrinths. That the great palace discovered and excavated by Dr. Evans at Knosses is the Cretan Labyrinth of the ancients is generally admitted. Generally accepted, also, is Mayer's brilliant suggestion with regard to the word AaBupurdos, that it is the same as the Carian Λάβραυνδα, which is probably λάβρυς Double Axe, plus the Asianic termination -νδα, which is the same as the Greek -νθος (of Κόρινθος, for example), claimed by Kretschmer in his epoch-making Einleitung in die Geschichte der griechischen Spruche as one proof of the existence of a prac-Aryan and specifically 'kleinasiatisch' element in Greek place-names. In view of the fact of the constant recurrence of the double-axe sign at Knossos, this explanation was adopted by Dr. Evans. It has commended itself to all except those who dislike the idea of a prae-Aryan population and speech on the sacred 'Aryan' soil of Hellas. To those, however, who have no particular prejudices in favour of the 'Indo-Europeans' or their group of languages, the supposition that the 'Minoan' originators of Greek civilization were not Indo-Europeans, and did not speak any form of the Greek language, but an 'Asianic' idiom akin to those of the Lycians and Carians, seems not only a probability, but a far more interesting probability than the other. The barbarian Scyths, the unintelligent Persians, were pure Aryans. The originators of human culture in Egypt and Mesopotamia were the non-Aryan non-Semitic Nilotes and Sumerians. In India it is possible that a Dravidian civilization existed before the coming of the primitive Aryans, and that the later culture of India was strongly influenced by the traditions of the conquered civilization. We know that the Semitic culture of Mesopotamia was almost wholly of non-Semitic (Sumerian) origin; the conquerors imposed their language on the conquered, but wrote it in the writing which had been invented by the latter. The theory which would regard the Mycenaean culture as of non-Aryan origin, and the later civilization of Greece as a blend of the ideas of the conquered 'Mycenacans' with those of the conquering Indo-Europeans from the north, who imposed their Aryan language on the conquered has therefore analogies in its favour. It seems to be rendered necessary by various considerations. The ethnologists have shewn us that the dark dolichocephalic Mediterranean peoples, whether they be Italians, Greeks, or Egyptians, form a race by themselves, in complexion and skullform radically differing from the fair brachycephalic 'Alpine' peoples of Central Europe, who have the best right to be regarded as the original speakers of 'Indo-European.' Kretschmer I has pointed out that many Greek place-names are evidence of a language-stratum in Greece which is related to the ancient languages of Caria and Lycia, which he believes to be non-Aryan.

Mycchaean Tree and Pillar-Cult (J.H.S. xxi.) p. 109, p. 6.

<sup>\*</sup> Sergi, Mediterranean Ruce.

<sup>&</sup>quot; Kreischmet, op. rit.

This belief will probably be shared by those philologists who know something of non-Arvan as well as of Arvan tongues. And it agrees with the demands of the ethnologists, who find the main stock of the Greek race delichocephalic and dark, that is to say, non-Alpine. The tall, fair-complexioned, redheaded people who formed the upper stratum of the old Hellenes, and were probably dying out about the time that the Greek became the Graeculus esurious, were the Alpine conquerors who imposed their Aryan tongue on the old Mediterranean Greek stock, which has survived them. Greek tradition agrees with this view; the Pelasgi were the Dravidians of Greece as far as their relations with the later conquerors were concerned. The conclusion that they were also the Sumerians of Greece, that the prehistoric civilization of Greece, to which her later Aryanized culture owed so much, was the product of non-Arvan 'Asianic' Mediterraneans (akin racially to the ancient Egyptians among others), who were probably the Pelasgi' of legend, is at least justified by analogy, and agrees with the demands of Sergi and Kretschmer from the view-points of ethnology and philology. The less cultured but more energetic Aryans, coming from the Alpine regions with their iron weapons (as Prof. Ridgeway said), overthrew the ancient civilization of the Mediterraneans, and in the time of barbarism which ensued (dated by archaeological discovery accurately to the twelfth to ninth centuries B.C.), imposed their language on the conquered, but at the same time drank in the knowledge of their more developed culture, with the result that in the eighth century Greek civilization was re-born altered and transformed by the new racial element in the land. It is thus that we see nothing strange in the idea that in the sixteenth century B.C., when the Minoan civilization was at its height, a language was spoken in Greece as different from Aryan Greek as ancient Egyptian was (and quite possibly more akin to the latter than to the former). Nor need we wonder if the Cretan hieroglyphs, when they are read, prove to express a language of the Asianic non-Aryan type, in no way related to Greek except in so far as words of the old language were adopted into the speech of the Aryan conquerors. Probably there are many such originally non-Arvan words in Greek,10

<sup>18</sup> In arricles in B.S. J. viii. p. 125 ff. and to p \$15 ff. Mr. R. S. Conway supposes that the Eteocustan tougue, as shown on the 'nomes." 'large,' and 'neikar' inscriptions from Prosess, is Lodo-European, and suggests that an Indo-Ruropean language was spoken by the Minouns, In effect his erricle is an apology for Aryanism in respect of the 'Minoms' and so indirectly for the Arvan character of Minean civilization, This goes against all the archaeological evidence, which gives a nun-Aryan improvious of the Minours. Mr. Conway does not believe in Kretschmer's theory that the Asianic languages were non-Aryan; but at the same time says 'I know nothing about Larian.' The arguments for the non-Aryan character of

The word Labyrinth then we may regard with Mayer as a prachistoric form, itself dating from Minoan times, and meaning Place of the Double Axe in the Asianic tongue of the Minoan Cretans; and we may with Dr. Evans regard the Knossian palace, the chief Place of the Double Axe in Crete, as the Cretan Labyrinth, Why was the Egyptian Labyrinth

Bry, Addieber, adamirffer, abirbent, noperffer, efyerfar, are all earthy of the soil; they represent exactly the type of words which come into language from the speech of the country-man, adaptions globas," They are, as he says, the words that the Achaean warriors leavet from their Mycenseun errants and tenants after the conquest. But they are for him of Indo-Enropean origin. Were this so, we should expect these words of the persents to re-emble words of the same signification in other Aryan longues, If Mr. Conway can show us that they do he will have proved a point in favour of his view. Meanwhile, one may be pardound for believing that these ore examples of non-Aryan words in Greek. Kupurdes, spedierdas, alyurdes may be instances of Indo-European words with the of termination added, though in the case of the two last the Indo-European origin of

4p48- and aty- sents open to question,

11 In J.H.N. xxi (ii.) pp. 268-274 Mr. W. H. D. Rome makes a vigorous attack on these conclusions. Since (in a footnote to p. 268) he has mentioned no personally as having adopted them, perhaps I may be allowed the hornes of a somewhat lengthy note is which to comment upon some of his arguments. Vigorous criticisms of thus kind are both useful and salntary, but they lose much of their form when they do not take account of all the evidence. (i) Mr. Rouse says that "no attempt is made to analyse the word Labyrinth, to explain the entiring, to explain the metathesis of e which is unexampled." This must have been written withour due regard to Kretschmer's work, although a reference to it was given by Mr. Evana. Why the metathesis of a aboutd be important when we are lealing in the case of Audopress with a proc-Heftenie word surviving in Greek, and in the cases of Addges and Addgeores with Carren words more or less imperfectly transcribed in Greek characters in comparatively modern times, is not apparent. The difference is remarkably slight; and those, who from a certain knowledge of Semitic tongues have learnt the true unimportance of vowels to the construction of words, will not be able to see that whether the word is written Andepureur or Andporter makes much odds: the important things are the A-B-p and the eff or sa, and their callocation in this

particular instance when taken in conjunction with the fact that both at Knosem and at Labraunda the double-age occurs and is the symbol of a god (ii) Mr. Rone done out believe that the double-axe was specially venerated at Knosses or by the Minoans generally. He makes many over the idea of Growks venerating a symbol at all the Grooks, he writes, twould be no likely to worship a trident or a bunch of grapes as to worship a pair of top-boots; and to regard these things as symbolically sacred would be to worship thom. Savages may make a fetish of a collar stud or a knife, but there is no reason to doubt that each exaggerated superstition was alien to the Greek intellect. Isolated imileations of the suder superstition cannot outweigh the general temioney of Greek worship towards sanity and away from symbolam.' The 'imlated indications' are quite sufficient to give Mr. Rome's case away. The fact is that there was in Greece as much underlying barbarium as anywhore also; even the 'Argan' Greeks were savages once. But, apart from this Mr. Rouse logs the question when he assumes that the Greaks who built Knossos were those idealized juragous who would have turned with graceful leathing from the commission of so unintel lectual an act as the veneration of a double-axe as the symbol of the divine power. It seems most probable that the Minoana were not 'Grocks' in Mr. Rouse's scarse at all, but a non-Aryan russ with religious Ideas akin to those of the Egyptians of the Canasnites; of their religious ideas many traces survived in the religious of later Greece and Asia Minor. All arguments against the wombin of the double-are by the Mineaus which are lissed on the supposition that their month type was identical with that of the later Greeks are beside the mark. The fast that the double-une was actually venerated by the Minorns is shown by (among other things) the discovery of a seems of its being worshipped, on a sarcophagus from Agia Triada. This being so, Dr. Evans's conclusion that it was the emblem of a god, who is the same as the god of Lahraunda, pe evidently entirely justified. The Carian god was identified with Zens: the great god of Crete was Zens. The double-axe god of the

called by the same name? The old explanation, due to Brugsch but afterwards abandoned by him, was that the word was originally Egyptian, being 'Ro-per-vo-kenet,' which might mean 'Temple-mouth-canal,' and that the Knossian Labyrinth derived its name from the Egyptian one. Ro-kenet ('Canal-mouth') or "La-hene, as it would have been pronounced in the dialect of the Fayyum, is certainly the original form of the name of Illahum.

Labyrinth was the later Zons Krotagenes, just as the double-axe god of Labraumia was the Karian Zenz. (iii) Mr. Rouse does not believe that the double-axe had any particular connexion with Knosses or that the Knossian palace has any special claim to the title of House of the Double-Axe : other signs besides the axe occur on its walls, the signs were all possibly never intended to be seen, having been covered with plaster, and the doubleaxe occurs at Phuistos and at other places as well as at Knosson: there ought therefore to be "Honses of the Double-Aze" and "Labyrintha" too. Other signs certainly occur at Knossos: but the continued excavations shew that the double axe is the commonest, and from the way in which it is inscribed it seems to have a special significance there which the others have not. That the signs were in many cases originally covered up with plaster or gypsum slabs is very probable, but this would not affect the argument. They must have been intended to mean semething, or they would not have been ent on the blocks at all. It seems to me (as I pointed out in Natiers, Nov. 20, 1902) very probable that the sign was gut on these blocks as an intimation to the quarrymen or missons as to the destination of the blocks in question-they were intended for the 'House of the Double-Axe -just as in Egypt blocks intended for the temple called ' House of Millions of Years, or (at Deir el-Bahari) Nefer-compage, Beautiful of Yerre, would have the eigns or what not painted on each as an intimation to the musons. This may well be one of the many small pomrs in which Minoun pructice resembled the Egyptian. But I do not quite gather from Dr. Evans's report on the exervations for the year 1901 (B.S.A. vii. p. 112) whether he conditors that the fine limestons wall at the western end of the 'Meguron of Double-Axes,' on which the double are is must in evidence, was ever musked by gypuum-slabs or plaster at all. In B.S.A. will p. 96, in dualing with the dietaff signs on another similar wall, he inclines to the view that they had been several with phister, as at Phaiston. The pillar illustrated in Myconome Tees and Piller-Cults (Fig. 5) and other

gypenm pillars and door-jambs which are inscribed with the couble axe sign were surely, however, never sovered up by faring-alabs or plaster any more than were the gypomus payements. As regards Mr. Rouse's denial of the exclusive elaim of Knossos to be a "place of the Double-Axe, curtainly Phaistes, for instance, may just as well have had its shrine with the emblem of the common god of the Cretans as any other Cretan city or palace, and this may have been called its labramida or labyrouth, its "place of the Double-Axe." But the Labyrinth of the Greeks was 'in the Chossian territory'; Minos, the king who owned the Minetaur (Dr. Evans compared the bull-frescore of Knosses), was king of Knosses Knossos was traditionally the chief city of the island and the centre of the Mineau thalassomey, therefore it was probably also the chief centre of the worship of the God of the Double-Axe, Zens Kretagenss, wherefore Dr. Evans is again justified to regarding it as the "Place of the Double-Axe sar' Coxes, the Labyrinth par excellence. That there may also have licen. confusions with the Cortynian save, which may have been called the 'Labyrinth' on account of its many windings, and become regarded as the true Labyrinth of the Minotaur, in possible. Mr. Rouse quotes from Strabo (viil 869) a cataromb near Nauplia which was called "the Labyrinth," so that the name was evidently generally used in late times for labyrinthine caves, just as it might be now, Mr. House says that the Knossian palace is neither many nor labyrinthing, but I for one have found it satisfy all reasonable demands in this respect: there is much more at Kunssee than 'fine open conrivards and straight corridom, us a glance at the plan will shew, A point on which Mr. Rouse seems, however, to have some justification for his criticism is inrespect of the pullars of the Pillar-Rooms. He denies their sacred character; that may pass, though most of as will think Dr. Evans is right on the point; but his contention that they did not stand free, but, whether also suit-objects or not, in every case performed an architectural function in upholding the roof, seems extremely probable.

(el-Lahan), close by at the opening of the Hawara Canal into the Bahr Yusuf, but 'Re-per-ra-henet' is a purely hypothetical form, which is not known to have existed, and in any case would have been prenounced by the people of the district \*Elpi-la-hene, which is not much like Λαβύρινθος, while Labraunda is.

Prof. Spiegelberg, regarding the Egyptian as the original Labyrinth, from which the Greek one took its name, suggested that it was derived from the Graceized Egyptian royal name AáBapix, given by Manetho in this dynasty, the original of which he considers to have been the praenomen of the builder of the Egyptian Labyrinth, King Amenembat III, Ne-maat-Ra,12 Dr. Evans, not questioning the Egyptological identification, but at the same time believing that the word was of 'Greek' prae-Aryan origin, suggested that 'it is quite natural to suppose that the Greeks, having taken over the word AaSupurbox applied by the earlier race to the Cretan building, should by a kind of Volksetymologic transfer the term to the temple of "Labaris." 12 This seems very probable. But it is to be noted that in the actual list of kings Labaris is the equivalent, not of Amenembat III, who is Ammeres, but of his predecessor Usertsen or Senusret III. Manetho makes Semisret the builder of the Labyrinth, not Amenembat. Nevertholess it is more than probable that Labaris' and its variant Lamaris' are intended for the throne-name of Amenemhat, the real builder of the Labyrinth : phonetically the name agrees with Ne-maat-Ra absolutely 14 the placing of him in the position of Senusret III is due to a confusion with the throne-name of the latter (see below, p. 330). It is quite possible that the likeness of the name caused Manetho to take away the great building from its rightful owner in his list, Ammeres, to give it to his predecessor, whose pame, as Manetho thought it to be, so closely resembled \after \text{\$\text{\$\pi}\$} \pi\text{\$\pi\$}\text{\$\pi\$}\text{\$\text{\$\pi\$}} \text{\$\pi\$} And no doubt others also believed that the name of the Egyptian Labyrinth was connected with that of the King Labaris or Lamaris.

It is most probable that in reality it received its name merely on account of a supposed resemblance to the original Labyrinth in Crete, and that a popular etymology assisted the identification. This resemblance may have been striking.

The position of the Egyptian Labyrinth at Hawara, close to the opening of the Fayyum, its character, and date, have been well known since the investigations of Lepsius is and Petrie. Little or nothing remains of it now, but in the old days it had been the theme of wondering comment by Greek visitors to Egypt. Herodotus makes much of it, and so do Diodorus, Strabo, and Pliny. It finally disappeared in Roman times: the brick chambers which Lepsius thought were its foundations are those of a late Roman village

<sup>&</sup>lt;sup>17</sup> Orienfalistische Litteraturgrifung, Dec. 1900, pp. 447–449.

II J.H.K. xxi. 109, n. 6.

<sup>&</sup>quot; No most-Kil would have been pronounced something like "Namer", as Net-maxi-Ei, the timenomen of Amenheten III, was, we know,

pronounced "Number? Babylanian form November 19th, and the interchange of a with I is usual: of e.g. nos tongue; Coptic los.

ii Deckmoder, i. 47, 78; Text ii. p. 11 ff, iii Hagara, Elaham, and Areros, p. 4 ff.

which was built on its ruins. The extent and position of the original building were made out by Lepsius, and a restoration of the plan has been attempted by Prof. Petric from the scanty evidence as to its construction given by the Greek and Roman writers. It was a great temple, "I with magnificent pillared halls, side-chambers, and outbuildings, erected by the greatest pharaoliof the Twelfth Dynasty, Amenembat III (circa 2200 B.C.), immediately in front of his pyramid at Hawara: there is no doubt that it was the funerary temple of the pyramid, erected by the king for the due performance of the funeral rites after his death. But unlike the temples of previous kings of the Dynasty at Lisht or Dashur, the pyramid-temple of Amenembat III was of enormous size and splendour. That it was a temple was not generally realized by the Greek visitors to it. Strabo knew that the king who built it, whom he calls Maindes or Imandes, was buried not in the Labyrinth, as Diodorus says, but in the pyramid, and that the halls of the Labyrinth had been built for some sort of religious purpose.18 For most of the other writers it was the king's tomb itself : Diodorus calls it the sepulchre of Mendes or Marres, the copyists of Manetho that of Lamaris, Labaris, or Lachares. Pliny quotes Lyceas as saying that it was the tomb of Moiris. and Demoteles as saying that it was the 'palace' of king Moteris. The various forms of the name of the king who built it are interesting, and can mostly be traced back to that of its actual builder. Even Pliny's Petesonchis or Tithoes' is evidently Amenombat III: the name Petesonchis being 'He who is given by Sebek,' the crocodile-god of the Fayvum, the land of the lake Moeris for which Amenembat did so much. Lycess, as quoted by Pliny, actually ascribes the building of the Labyrinth to king Moiris the lake-maker. The name Moiris is probably the word Mer-uer. Great Lake ' (the king being a sort of eponymous here of the lake), confused with the actual praemomen of the king ( form Moteris shows, was in the late period read Madt-u-Ra (\*Materi\*), as well as (properly) Ne-maāt-Rā, Diodorus's name, Marros, is evidently Ma-Rā or Ma-a-Ra uncontaminated by mer-uer, and as a matter of fact he separates the Maker of the Lake from the Builder of the Labyrinth, calling the former Moiris. Herodotus evidently knew of the king Moiris, but forgets to insert him in his historical sketch, speaking merely of the lake as "called that of

It airs may be judged from Prof. Petric's temark (ice cit. p. 5) that 'all of the temples on the cast of Theises [all Kurnak and Luxor, that is] and our of the largest on the west bank [the Ramessema] might be placed together on the one area of the rains at Hawara.

<sup>18</sup> xvii. 1. 27. Derminodu, 56 ques vàs añalas vanuderas, bre vodes enplote fon he decide curépxeodus vásves apartirôge perà var nicelar lepar nal lepelus, dorlas ve nal brandonias sept vás previoras xápir.

<sup>10</sup> Cf. Griffith, Ag. Zoits, axaiv. (1896) pp. 49.

<sup>50: &</sup>quot;On substantive compounds formed with adjectival ........" No-meat-Re would mean

Possessing the justice of Ra, like

Netan (Naxas); 'Possessing Doubles' Mantn-Hō would mean 'Justice of Ra' simply. It is more than probable that the name was in later times often read Mant-a-Rō or simply Mant-Rō, 'Justice of Ra' ("Ma-Rō, Mappet, Moios) as well as Ne-mant-Rō, 'Possessing the Justice of Ra' ("Nonarb, Nazapit, Admapit).

Moiris, and assigning the Labyrinth to his 'Dodekarchy,' the semi-independent princes under the Ethiopians and Assyrians. He seems then to have been unaware of any connexion between the builder of the Labyrinth and the Moiris who created the lake. Is Diodorus swayed by the authority of Herodotus when he, too, assigns them to two different kings? He was aware that Herodotus was in error in assigning the Labyrinth to the Dodekarchy, but makes the king Mendes " or Marros who built it a totally different person from Moiris. His information was evidently correct, since Marros is a form of the praenomen of the real builder, but, being misled by Herodotus, he did not identify Marros with Mouris. Manetho might have been suspected of a similar exaggerated respect for the authority of the classic Herodotus, 21 for he appears at first sight to have attributed the Labyrinth to Senusret (Usertsen) III, the predecessor of Amenembat who built the lake. But this is only apparent: in all probability, as we shall see he stated both the name of Amenembat and the fact that he built the Labyrinth very plainly; it is his copyists who have garbled him here as elsewhere. Manetho's name for the Labyrinth-builder is, as we have seen, Lamoris or Lubaris; a third form, Lachares, is also given by the copyists. The lake is not ascribed to this king. According to the order of the kings, he ought to be, not Amenembat III, but his predecessor, Senusret III, the Manethonian representative of Amenembat III being Ammeres. It has therefore been generally supposed that Manetho had simply erred in attributing the building of the Labyrinth to Semisret (Usertsen) III. Prof. Spiegelberg, however, following Unger, has preferred to suppose that Lamaris is really the representative of Amenemhat III, owing to the similarity of his name to the praenomen of that king (see above, p. 327). Ammeres and Ammenemes, his successors, therefore must, if Spiegelberg's view be accepted, both = Amenembat IV, since +Skemiophris+ (read Skenophris), the third from Lamaris, is evidently the queen Sebekneieru-Rā (pronounced \*Skenofrerî\*). It seems, however, that although Lamaris = Ne-mant-Ra (Amenembat III), it is unnecessary to suppose that Senusret III is unrepresented in the Manethonian list or that Ammeres as well as Ammenemes = Amenembat IV. A way out of the difficulty is shewn us by the variant form of the name Lamaris which is also given us, mmely Lachares. Now the praenomen of Senusret III is Kha-Kau-Rā (\*Khakari\*), and Prof. Petrie has pointed out " that Xaxapns is probably a corruption of this, the mistake of \(\lambda\) for \(\chi\) being easy. Since the Manethonian list of the kings exactly tallies with that of the monuments on the supposition that Lachares = Sennsret III, we may agree that Prof. Petrie.

of this name is the later king New Ascendedol (pron. \*Newtoolidat) of the Tanite XXIat Dynasty.

<sup>&</sup>quot;Meader is a confused interpolation like that of the name of the pharmon Sheshank (Shishak of the XXIInd Dynasty) into the list of XIIth Dynasty kings as 'Soumgosia, instead of the true name Secontria (Scanarot I). Strabo's name for the king, Meindos or Immades, is the same; he calls Memnon (Amenhotep III) also Soumdos. The original

On the probable influence of the Herodotson surfacely on later writers are J.H.S. xxiv, 'Nitokris-Rhodopes,'

<sup>#</sup> Hint. Ep. 11 p. 178.

is right, and that Manetho wrote the name of Senusret III Xayapps or Xakapps. Why then is he also called Annapos or Angapis, which is the name of Amenembat III, and given the building of the Labyrinth, which was Amenembat's work ! The solution is that Manetho's original list gave after Sesostris II (Sequeral II) :- Khakhares (Khā-kau-Rā Semusret III). Lamaris (Ne-maat-Ra), δς τον έν Αρσενοίτη λαβύρινθον έαυτώ τάφου RATEGREÚAGEP, who was also called Ammeres (Amenembat III), followed by Ammenemes (Amenembat IV) and Skenophris (Selek-neferu-ra). double name of the king who built the Labyrinth confused the copyists, and when the barbarous-sounding Xayapox had become corrupted or (quite possibly) emended into Aayapns, it was an obvious way out of the difficulty to suppose that Adyaphs was the same person as Aduapis, the builder of the Labyrinth, Ammeres being a separate king. Thus Senusret III appeared to be the builder of the Labyrinth according to Manetho. We see, however, that in reality Manetho knew perfectly well that Amenembat III was the builder of it, and mentioned both his praenomen (in a more accurate form than that current in his day) and his nomen. The latter he may very well have given originally as Ammenemes, called also Merres, Marros (or some such form); this the later copyists combined and compressed into Ammeres. The influence of a popular etymology, based on the name AuBapis or Aunapis, in definitely fixing the name 'Labyrinth' on the temple at Hawara, has already been noticed. May the form AaBapus be itself a result of the conferring of the name Labyrinth on the temple of Lamaris !

Strabo describes the position of the building very accurately; in his and Pliny's time its ruins appear to have been still remarkable, though the latter notices its increasing destruction by the ravages of the surrounding people, who found in it the usual convenient quarry of ready cut and polished stone which every Egyptian temple has been to the later inhabitants of its vicinity.26 He also notes that 'one person, and one only, has made some slight repairs to the Labyrinth; this was Chaeremon, an eunuch of King Necthebis, who lived five hundred years before the time of Alexander the Great. The only Egyptian kings with a name resembling 'Necthebis' are Nekht-her-hebet and Nekhtnebf of the XXXth Dynasty, the last native rulers of Egypt, who lived only half-a-century before Alexander. The mention, however, of Alexander in connexion with 'Necthebis' makes it very probable that there has been some confusion as far as the date is concerned, and that slight repairs to the Labyunth were really attempted by some Asiatic Greek chamberlain of Nekht-her-hebet's (Necthebis = "Nekht-hebe), who as a Greek would feel the same interest in the world-renowned Egyptian Labyrinth as his fellow-countrymen. In Herodotus's time the vaults had been used to

bury the sacred crocodiles in.

Both Pliny and Strabo remark the wonderful polished stonework of the place, and the former notices a thing which surprised him, namely that at the

on The neighbouring pyramid of Userteen II at Illahus, was raided for stone as early as the time of Ramses 11.

entrance it was constructed of Parian marble, while the rest was of syenite. This 'Parian marble' is interesting. It was of course not really Parian marble, but evidently some kind of local crystalline marble or quartz-veined limestone: Lensins, during his investigation, discovered what are undoubtedly remains of the actual marble mentioned by Pliny, in the grossen Säulentrommelu und die müchtigen Architrav- oder Mauerstücke . . . aus einem sehr harten marmorartigen Kalkstein, der zuweilen Quarzadern hat und öfters ziemlich gran wird, im Ganzen aber von schoner weissen Qualität ist (das marmor Parium des Plinius). This use of fine and bright white stone seems characteristic of this particular period of Egyptian history; shining white quartzite was much used then, as for instance by the same king Amenembat III for his twin colossi on the 'pyramids' of Biahmu, which are described by Herodotus (ii. 149). It may well be that this beautiful material was also used in the construction of the Labyrinth. Pliny notes that all the Labyrinths of the ancient world, of Lemnos and of Italy, as well as of Crete and Egypt, were covered with arched roofs of polished stone. It is easily comprehensible that to those who first compared their mazes of corridors, courts, and stairways, and had seen the shining white limestone portals and walls of the one and seen or heard traditions of the glittering gypsum floors, walls, and pillars of the other,24 the temple of Hawara and the Knossian Labyrinth may have seemed by no means unlike. There is no need then to seek for any farfetched Egyptian derivations for the word 'Labyrinth.' This and the other labyrinths were so called on account of their real or supposed resemblance to the original Labyrinth, the 'Place of the Double Axe, at Knossos.

The actual resemblance must not be pressed: one was a funerary temple, the other, though it may have partaken to some extent of the character of a temple of the God of the Double Axe, was primarily a royal palace. and no doubt there was a radical difference of plan and purpose between them; but the superficial resemblance, the resemblance of the materials and general appearance of both, was enough to make the Greeks give the one the name of the other.

This resemblance of outward appearance is extremely interesting, in view of the probable nearly contemporary date of the two buildings. The Egyptian Labyrinth may have been older, but we do not know that it was so very much older than the Greek one, in which have been found Egyptian

rerippuse users roo was huar Sise, t. 61), but the tradition of its characteristics had evidently survived and, since the site was always kept clear of later buildings (B.S. at. x. p. 51), bits of the pulses may have been seen from time to time. Diodorns's statement is a curious several of the actual facts. Now it is the Egyptian labyrinth which has totally disappeared, while the Crotan one has been discovered and proves to be comparatively well preserved.

The Minem King may also have been highpriest of the Pelssgian Zens of the Double Are.

I am assuming that much of the planter centing of the storcood gypsium walls which were uncovered had disappeared in antiquiry as now. But not all the gypsium blocks were covered up with storco, apparently. Many of the fine foreing slabs cannot have been, nor can most of the pillats; while the gypsium pavements were certainly never plastered. It is true that Diodorns speaks of the Cretan labyrinth laving wholly disappeared (\$\delta \text{A} \delta size cara the Kettus hoperious textus, else foreignes to the garagements.

It can' Alyerter becomes the fixe extransish

relies which are not more than a couple of centuries later than the time of Ameneinhat III. We may not without reason compare the Egyptian use of the white 'Marmor Parium' and quartzite in his reign with the nearly contemporary use of white selenite (crystalline gypsum) by the Minoaus-Gypsum itself occurs in Egypt on a XIIth Dynasty site: I found several fragments, which looked as if they had been worked, last year close to the southern pyramid of Dashur. They possibly came from its temple. And in the excavation of the funerary temple of Mentuhetep III, of the XIth Dynasty, last year, were found two fragments of actual thin facing-slabs of polished white crystalline marble, of a kind which Mr Somers Clarke informs me is found near the Thebaid; these I believe to be from the position in which they were found, parts of the XIth Dynasty fabric, and not of later



FIG. 1.—ELEVENTH DYNASTY WALL, DETR EL-REBARD.

date. In them we have a precise parallel to the gypsum facing slabs of Knossos.

This contemporary use of shining white stone in architecture in Crete and Egypt seems to me to be more than a mere coincidence, and to point to a connexion in this matter as in others. The idea probably came to Crete from XIIth Dynasty Egypt: the Egyptian instances are, if anything earlier, not later, than the Cretan; the fushion is not seen in any later period in Egypt, so far as is known, so that Crete probably did not give it to Egypt.

This resemblance makes it conceivable that other apparent similarities between details of Minoan architecture and that of Egypt under the Middle Kingdom are more than mere coincidences. The finest stonework, as regards blocks of white limestone for walls, in Egypt is that of the Middle Kingdom. The newly-discovered facing walls (Fig. 1) of the Northern Court

of the Temple of Mentuhetop III at Deir el-Bahari, already mentioned, are the chief specimens of this splendid Middle Empire stonework in Egypt The somewhat later remains of masonry at Dashur are another instance of this work. The masonry of the XVIIIth Dynasty in the Great Temple at Deir el-Bahari, which has hitherto been considered good, is quite poor in comparison with that of the Mentubetep temple. Other fine limestone walls in Egypt are so rare, owing to the depredations of later stone-hunters, who have used ancient limestone buildings as quarries from the days of Ramses II to those of Abbas II., that the great Temple of Deir el-Bahan must be taken as the chief specimen of limestone musoury later than the Middle Kingdom. The XIXth Dynasty work at Abydes is good, but the blocks are small and irregularly fitted, as in the XVIIIth Dynasty Deir el-Bahari temple. It is the size, regular laying, and fine jointing of the Middle Kingdom blocks that are so remarkable. When the XIth Dynasty walls at Deir el-Rahari were found, those who had seen all three were immediately struck with the outward resemblance of the first not only to the Dashur walls, but also to the best masonry at Knossos, especially that of the North Gate. When we remember that they are nearly contemporary, the similarity of the sizing and spacing of the blocks in the Egyptian and Cretan masonry in question becomes suggestive. Of course the Egyptian masonry of the Mentahetep temple of Dashur, and probably of the Hawara Labyrinth also, is better than that of Knossos, but the resemblance remains, especially when we take into consideration another fact; the collocation in both cases of square pillars with the fine masonry. This third resemblance may be purely accidental, but it is interesting when taken in connexion with the above, Very characteristic of Minoan architecture is the use of the simple square pillar. We see it in the Portice (Fig. 2) 2 of the North Gate at Knosses, the resemblance of whose walls to the stonework of the Egyptian Middle Kingdom we have already noticed; in the Northern Building at Knossos. which had two very perfect pillars of this type in one room (Pl XIV. 2); and in the pillar-rooms of Phylakopi, 38 Zakro, 59 and Palaikastro, 59 References to other examples at Knossos and Phylakopi are given in Phylakopi, p. 261, note L "All the Chossian pillar-rooms," says Dr. Mackenzie (loc. cit.), belong in construction to the first great period of the palace; and the occurrence of such pillars on other Cretan sites goes to show that by this time they had become a regular fashion based probably on a long previous history. The cumulative evidence from Crete is sufficient warrant for assigning the Melian pillar-houses to the same general era and to the same Aegean style of architecture.' At Phylakopi they belong to the Second City: that is to say they were a feature of Aegean architecture in the early Minoan period, not so very long after the time of the XIIth Dynasty.

Now square pillars were probably a feature of Egyptian architecture

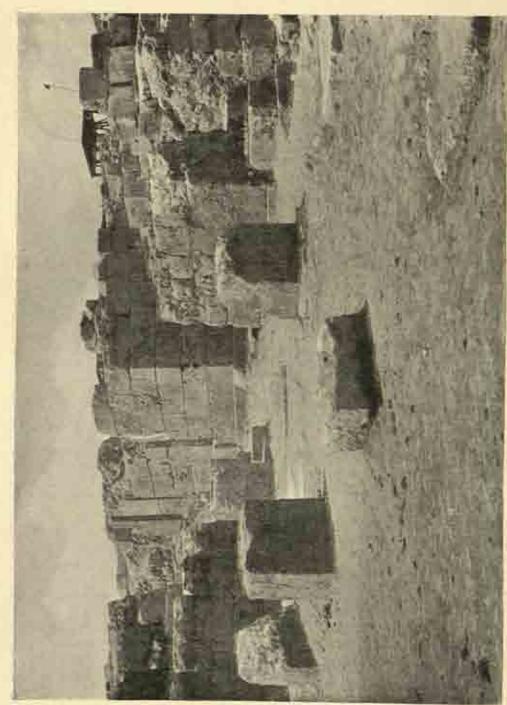
<sup>#</sup> H.S.A viii. Fig. 8.

<sup>&</sup>quot; 78. p. 6 : ix. Pl. IV. 4.

<sup>\*</sup> Phylohopi, Figs, 8, 9.

<sup>™</sup> B.S. A. vii 131:

<sup>= 10,</sup> viti. 516,



Pitt 2. Postrico or the North Cate or Knosnos. (From B.S.d. viii. Fig. 3-1

in all ages, but it is noticeable that some of the best specimens we have are of the period of the Middle Empire. Pl XIV. 1 and Fig. 3 show pillars of this type from the lower colonnade of the Mentuhetep temple at Deir el-Bahari (which was probably imitated by the builders of the colonnades of the later Hatshepsu temple in the same place), and the well-known Temple of the Sphinx at Gizs, which is very probably a work of the end of the XIIth Dynasty. The resemblance of the Mentuhetep pillars in Pl. XIV. 1 to those of the Northern House at Knossos (Pl. XIV. 2), may be merely fortuitous, but it is at any rate striking. The construction



Pro 3 -Temple of the Sphink at Clea.

is the same. In several instances at Deir el-Bahari the lowest portion of a pillar is in one piece with the pavement block on which it stands, as in the Knossian example. The size is also about the same in both cases.

The photograph of the Temple of the Sphinz (Fig. 3) shows the XIIth Dynasty combination of square pillars with splendid wall-masonry on a grand scale. This instance is especially interesting, since it seems highly probable that this temple was the work of Amenendiat III, the king who built the Egyptian Labyrinth, and it may well be that the Labyrinth was built in much the same simple but grandiose style. This is very possible, since

of the southern pyramid of Lisht. And a theory has lately been put forward which argues that the flew of the Great Sphinz is a portrait of Amenomiat III. This king was extremely fond of sphinz making, and it is well known that the strange sphinzes found at Tanis, which used to be considered to belong to the

If That some considerable work was done at Gira under the XIIth Dynasty which involved the destruction of more assisted buildings there is proved by the fact that fragments of a lintal and walls learing the name of Khufra (whose statues were found thrown down a well of the Sphinx Temple) were used in the construction

it is noticeable that none of the ancient writers who refer to it seem to speak of the walls of the Egyptian Labyrinth as decorated with anything much in the way of inscriptions. and this unusual absence of inscriptions is one of the most striking features of the Temple of the Sphinx and of the little temple of Kasr es-Sagha, near the northern shore of Lake Moeris, which is probably of Middle Empire date, and may well be also the work of Amenenhat III. The resemblance between the two Labyrinths which so struck the old observers as to induce them to give the name of the original Labyrinth, the old 'Place of the Double Axe,' to the Egyptian building of Moeris, may then not have been confined to complexity of plan and to portals and roofs of skining stone, but have extended to the combination of fine masonry and square pillars; the uninscribed masonry, so different from the righty-hieroglyphed walls of the later Egyptian temples which they saw elsewhere, may also have reminded Greek visitors of the simple and unadorned stonework of Greece.

At all events it is curious to find that the presumed ancient resemblance of the Egyptian XIIth Dynasty Labyrinth to that of Minoan Crete (since the one took its name from the other), is more or less borne out by an actual superficial resemblance of some of the architecture of the XIth and XIIth Egyptian Dynasties (of which we know little more than the examples to which I have referred above) to characteristic features of the probably nearly contemporary architecture of Minoan Greece. Superficial resemblances were no doubt enough to attract the attention of the old Greek visitors to Egypt, as well as of the modern archaeologist who is not at the same time an architect; but the resemblances in question seem to me very probably more than superficial. Their actual contemporancity, which is known to us but was not known to Herodotus and his contemporaries, seems to me to be a cogent argument in favour of this view. If an architect is disposed to dismiss them forthwith as no more than skin-deep, he should remember this fact, that the early Minoan architects were either actually contemporaries with or but little posterior to the Egyptian architects of the Hawara Labyrinth, the Temple of the Sphinx, and the XIth Dynasty colonnades and walls at Deir el-Bahari, and suspend his judgment. Diodorus may well have been near the truth when he said that Daedaius came to Egypt, admired the Labyrinth, and built one like it for Minos.23 Just as

Hyksos peried, have my been proved by M. Gulenishtchev to be undoubtedly the work of Amesembat III. It is by no means impossible that not only the Labyriath, but also Kasr es-Sagha, the Temple of the Sphinx, and even the fireat Sphinx itself, are all the work of this great king. It is sphinxes at Tania, his conception of the Labyriath, as well so his work in connexion with Lake Mooris, shew that he was a man of original mind, and it may be that he had some paritanical ideas of his own on matters pertaining to religious art.

which led him to insist on an entire absence of instrictions from the walls of the temples which he built, as well as to strike out an unconventional and peculiar line in his sphinges.

CL Pile N.H Exxel 75.

Pew fragments of inscriptions have been found, but enough to show that the Labyrinth was not so entirely unmeribed as the Temple of the Sphiux. In comparison with the Professio and Roman temples, however, it probably seemed simple and unadorned.

the prehistoric Aegeaus resembled the early Egyptians in their love of fine stonework in the small matter of bowls and vases, so may they also have resembled them in their love of fine stonework in the large matter of building. And the resemblance which the Greek visitors truced between the two Labyrinths may not have been so very wide of the mark after all. How far this resemblance is to be traced to Egyptian influence in Greece remains doubtful. At any rate we know that this influence existed earlier than the time of the XIIth Dynasty. How far resemblances of this kind are to be traced to 'influence 'rather than to the closer connexion of a common origin of the two civilizations is a point which probably will not be settled for many years to come. It is now evident that the prehistoric civilization of Greece had a very close connexion with that of Egypt, and that the Egyptian archaeologist must have much to say in the discussion of it. If ancient Egyptian civilization was oriental, that of prehistoric Greece was oriental also: its religion seems Canaanitish, its language was probably not Indo-European its writing is hieroglyphic and resembles Egyptian hieratic scratched on Babylonian day tablets, and if its art seems unorientally free and even beautiful in comparison with that of Egypt, the fact is that it seems so only to those who do not know that Egyptian art was neither so fettered nor so ugly as the superstition of the schools would have it. That there is, notwithstanding, something 'Hellenie' in Minoan or Mycenaean art is un-If we were to suppose that the prehistoric Greek and the Egyptian civilizations had a common origin back in the darkness of the Age of Stone, that they were twin cultures of the same Mediterranean stock, the one having developed, however, amid the diverse isles and changing seas and skies of the Aegean, the other on the monotonous banks of the Nile, we can see how the northern culture would naturally show greater freedom and variety, often running off into mere bizarrerie, but as often exhibiting something of that spirit which we, knowing it in the renascent Aryanized civilization of the later day, call ' Greek.'

H R HALL

#### TSADE AND SAMPL

In my contribution on the 'Semalography of Greek Pappri' (J.H.S. xxii, 1902) I included the Ptolemaic symbol 'P or (N=900 among those of whose origin no satisfactory explanation could be offered (p. 138); although on p. 145 I identified the symbol with the later minuscule symbol 'sampi' or n=900, and pointed out the improbability of any association of the latter with either Pi or San-Sigma, whether in forms or arithmetical values. For the rest, as I said, 'we must wait until we are in possession of ante-Ptolemaic documents, or of some facts yet to be supplied by epigraphy.'

This paper is the report of a more thorough survey of the field of Greek and general archaeology on all the questions and problems involved in the explanation of the sign. These are in the best sense trivial, lying at the crossing of the ways of not a few important theories, to which the foremest scholars have recently devoted much investigation—the composition and history of the Greek alphabet, particularly as regards its application for numeration, the enigmatical Tsade, the mutual relations of the ancient alphabets, the antiquity of S. Semitic (Arabian), Minacan, and Sabacan inscriptions, and the place of the Phoenician alphabet in the history of

primitive Hellas.

It has been frequently remarked to me as a commonplace by well-informed epigraphists that since the labours of Kirchhoff nothing important has been done in the Greek alphabetology. It would further be disingenuous on the part of an English writer having access to the admirable unprejudiced and balanced epitome of the position of the study in 1892 by Dr. Wm. Larfeld in Müller's Handbuck (pp. 494-536, etc.), were he to publish as original matter any survey of the subject. There is practically nothing new to be said.

But although no new evidence is at present forthcoming, so much ingenious theory has been lavished upon the fascinating puzzles of the

Head, Dr Kenyon, and other gentlemen of the British Museum, Prof. Conway and Mr. Witton (to all of whom the thanks of the writer are due)—so that the recess here aftered is some thing more than a statement of the writers own findings.

The investigation has been made as part of the work of the department under Prof. Errord Gardner at University College, London, with whom the present writer has had the advantage of discussing the epigraphic and other guidence—as also with Mr. G. F. Hill, Dr.

subject, that question-begging terms and forms of expression are insinuating themselves which may soon become a hindrance in the path of the serious student. To such, a severe re-statement of the present condition of our knowledge derived from documents by legitimate processes may be of real service. By confining myself to the history of /\(\text{N}\) and \(\text{T}\) I hope to render such a service in regard to the important questions above alluded to.

It may be at once said that according to the prevalent views the Greek sign of numeration T=900 would have the following life-history, viz. that it is the sign which is found on inscriptions and in the earliest handwritten documents (commonly rounded, sometimes shaped T) and in the later manuscripts in the form  $\mathcal{T}$ , and there called Sampi, its numerical value being still 900; that this early square sign T is the same which occurs on a few monuments with the sound-value  $\sigma$  or  $\sigma\sigma$ ; that this is identical with M, the Semitic Tsade; that this Semitic letter is the representative in Semitic alphabets of the Egyptian snake ' = ts  $^{*}$ .

This is all highly desirable, if true, as it satisfies several very reasonable hypotheses, and proves for this sign a life-history of at least five thousand years, from the formation of the hieroglyphic alphabet to the

written and printed (classical) Greek of the present day.

Further it would be explained that as a numerical sign it has been in use from the ninth century R.C.; that having been disused in the final fixing of the early Greek alphabet, it was taken up again when the alphabet was applied to notation of numerical values, though not restored to its place; that thus it has come about that while in the parallel Hebrew system 2 = Tsade = 90, in the Greek T = Tsade = 900, being placed last at the end of the completed Greek alphabet ending with amega.

Now-how much of this is demonstrable, and how much is purely

hypothetical i

The results of the present investigation may be summarily given as

follows :-

The occurrence, shape, and numerical value of  $\Upsilon$ =900 in the papyri are beyond debate, though the sign is not very common; still rarer is the square-form  $\Upsilon$ , yet this also may be accepted as a proved variant of  $\mathfrak{A}$ . The early minuscule  $\mathfrak{A}$  has passed without challenge as a direct descendant of  $\Upsilon$ ; and the slow conversion in mediaeval MSS, into the best-known form  $\mathfrak{A}$  is a fact in palaeography which is not disputed.

But the name Sampi, which first appears in the second half of the seventeenth century, is a double misnomer. For as the noted statement of Herodotus indeed asserts, San is to be associated with Sigma, and not with Tsade, to which O, if a sibilant letter-form at all, must be referred; while with Pi, in spite of the late accidental similarity, no has nothing at all to do. The double stroke within the curve does not make its appearance till quite late, rarely before the end of the ninth century.

What of the theory that this sign is identical in origin with the

alphabetic letter of the same shape T which occurs in indisputable readings only in four proper names (two of persons, two of places) found on an inscription of Asia Minor and a group of coins from one Thracian town of the fifth, fourth, and third centuries B.C. | The theory has been accepted by some very eminent epigraphists, and is supported by the general opinion of writers on these subjects. Yet the form of T and the fact that it is a substitute for o or oo in the words mentioned are indeed the only quite certain facts which are known about it; its date is sure enough, but its exact meaning is less sure, from the circumstance that the certain readings occur not in ordinary Greek words but in names whose origin is in one case (MeonuSpla) conjecturally Greek, in one case ('Alikapraggo's) not Greek at all, while both person-names (OaTaTios and Havvarous) suggest an 'Anatolian' origin; and in the Thracian group the letter is used in associations which suggest the possibility at least of local influence, while there is evidence of racial intercourse to explain the reappearance over-sea. Its sound is most probably a sharp sibilant, though it may be partly a dental and conceivably a mere variant of Tau; its origin may possibly be local (Thracian), either as a survival of a barbarian sign (to represent a local sound) or a modification of a Greek letter; the oft-repeated reference to a Phoenician origin or general Greek use having nothing to support it.

Next, the identification of m, T as a special form of M, the well-attested sibilant of many very early Greek alphabets, though passing current on the confident opinion of some authorities, has nothing more to attest it than this authority. As will presently be shown, there are some facts which stand ready to corroborate such an identification and make it very satisfactory, could the direct evidence be first addited, but the direct evidence is quite insufficient at the present time. Nothing that we know of the Greek M points to a form like T, and Semitic correlates of similar shape and sound-

value are too late and too far away to be adduced alone.

So important, however, is the possibility that M = T, T, that it is quite worth while to examine the rest of the chain, of which this is the important link. For if T is M, then it is the surviving descendant of Tsade, the letter eighteenth in the Hebrew alphabet, whose existing representative in the Semitic languages is of the well-attested type T (the Phoenician form). That M = T there is no reasonable doubt, although there is not epigraphic or other positive proof. But the further assumption, that this T of the Semitic writing is identical with or directly derived from the hieroglyphic T, has had as many vehement opponents, during the modern period of scientific palaeography, as it has had warm supporters. All that can be said is that some relation between the Egyptian and the Semitic alphabets is too evident to be set aside, though the nature of the relation, whether in regard to the chronology or to the history or to the detailed morphology, cannot yet be demonstrated.

<sup>2</sup> Such as Ethiopic forms,

Very similar is the result of attempts which have been made to explain completely the place of T as a numeral. The date of the adoption of the Ionian alphabet as a system of notation has been assigned by the latest authorities (e.g. Müller's Handbuck) to a time not later than 800 B.C., but the evidence is not strongly conclusive, and it is possible to make out a very good case for a much later date (e.g. Keil, in Hermes 29, for about 500 B.C.). This increases the obvious difficulty which in any case exists of understanding how it came about that T, if it was a by-form of Tsade, and if it was re-adopted, after disuse, for the lacking sign of the notation-system, was not restored to its place in the alphabet, and why the by-form T was adopted rather than the universal M. Direct epigraphic attestation must be demanded, and that is not adducible, sufficient for the complete demonstration which the case requires. That a sign of or T existed as a numeral from the carliest times of Greek writing, may be taken as likely, and that it was placed at the end of the Ionic alphabet for purposes of numeration, but that this is the lost Tsade is by no means to be accepted yet by any student who wishes to proceed by epigraphic facts.

Indeed it must be admitted, however reluctantly, by every candid investigator, that the evidence which has been adduced for innumerable theories is very meagre in quantity, and has been used for many a circulus in prolando, concerning that enigma of epigraphy, the history of Tsade. As for the numeral O, there is not much evidence for its reference with Tsade at all, the known types of which it does not markedly suggest in general shape; while it has not its well-known place in the alphabet, and has not the numerical value which that letter possesses in the Hebrew alphabet notation-system, apparently cognate with, or directly borrowed from the Greek.

The residuum of proof which is actually forthcoming is shown in detail in the following pages. An attempt at a reconstructive conclusion is added at the end.

We have to examine seriatim the epigraphic or historic evidence for the following:—

- For the existence and form of the sign=900 in earliest papyri.
- 2. For the existence and epigraphic form of m the sibilant.
- 3. For the identification of the two foregoing,
- 4. For the identification of O or m and epigraphic M.
- 5. For the identification of M and the Phoenician P.
- 6. For the reference of all these to \_\_\_\_\_ the Egyptian Ts.
- For the attribution of the Greek alphabetic notation to Ionian colonies in the ninth century.
- 8. For the explanation that m the sibilant was selected for the required sign = 900, with an examination of the Hebrew system, especially in its divergence at Tsade from the Greek values.

9. For the identity of in with the later no.

To put it graphically we have to test each link of the hypothetical palacographic chain ;---

$$C_{N} = P = P(0.00) = T = P(0.00) = T = P(0.00) = T = P(0.00)$$

What documentary evidence exists of the use of  $\P$  or  $\Psi = 900$  in the earliest papers! What exactly is its shape!

I have examined in original or facsimile, or through the testimony of printed records, all the available paperi (and ostraka) of the collections in the British Museum, the Louvre, the Ashmolean, and the Bodleian; the Viennese Rainer collection, the Heidelberg collection; the Flinders Potrie, Oxyrbynchus, Tebtunis, Fayum, and other paperi; besides smaller groups of special interest.

The result, numerically, is not large, as regards T. It amounts to a total of fifty undoubted \* readings, in which the square form T makes only twelve per cent. Less than ten are of Roman period, the majority Ptolemnic; and I have not recorded the Byzantine. As to shape the following examples are typical:

OF T :-

B.M. Pap. xv. (frag. 8), L. 2. Second century B.C.

ωστε ειναι ΧαΤοη=1 tal., 978 dr., 2 ob. (Kenyon).

B.M. Pap. xv. (frag. 8). Second century B.C.

σετω(νιον) ανα ρ ... κθ ΒΤ ανα ξεξ

The BT = 2900 (Ken.).

There is a tendency strongly marked towards sharpening of the curve, making in many cases an apex, of the type \(\frac{\chi}{\chi}\).

Wilcken quotes a form P but probably the initial tick is a ligature.

Concerning the square-form T, it is more difficult to say what is typical. It is perhaps better to give my list as complete as possible. The Revenue Papyrus in the Bodleian collection has the symbol of this shape (col. 71). Mr. E. W. B. Nicholson, Bodley's Librarian, kindly sends me this exact copy:

Rev. Pap. Col. 71.

\* 4-7

<sup>\*</sup> A number of mutilated readings I have set saids as doubtful even though the context makes the meaning clear.

There is in the papyrus no doubt of the intention of the scribe to make a "square" top, but the same elaborate boldness of the hand as is to be seen in the Pap. Par. 54 makes one still hesitate to decide that this is the simpler

normal form as compared with T.

I venture to select, as perhaps typical of this square form, the instances which follow, which I have taken from the Paris Papyrus 54, but I offer them with the remark that the hand inclines to be ernamental, adorning letters with little cross-strokes, which may be partly the explanation of the very bold hook-like addition to the cross-bar. Still, as Dr. Kenyon abserves, when all allowance has been made, it is an undoubtedly good instance:

Pap. Par. 54 recto. Atlas of Notices et Extraits, vol. xviii.

A papyrus from the batch from Memphis concerning the twins, middle second century 8.7.

In col 2:-

Repeated in a copy which makes part of col. 3:-

Fanciful ornaments:-

Another:-

Wileken, on an occurrence of T or T in Ashmolean pap. B. 27, says it is not  $\tau_{\ell e} = 315$  as edd., but  $T_{\ell e} = 915$ ,

Pap. Par. 55, 1, 38, apparently mid. second century R.C. Witkowski reads 179, while earlier of reads 177.

(Prodromus grammaticae papyrorum graecarum actatis Lagidarum, in the Resprany Akademii Uminjetności Ser. ii, Tom. si. Cracow 1898.)

Wessely in the papyri he was reviewing in 1883 mentions A = 900 as

occurring once,

The sign also occurs in the Naukratis fragments, as in Insert from Naukratis, E. A. Gardner 1886, Plate XXXII. No. 27 where occurs and XXXIV. No. 404 which is an equally bold these are both quite isolated signs, so that either of them may be inverted, or result from a mutilated combination of several signs or letters. Nothing of any positive value as evidence can be found in these excellent facsimiles.

This small list of half a dozen is quite sufficient to establish the existence of T as a square-topped form, commencing with T; but whether this is the normal or T it is impossible to decide. T may just as well be an ornamental form of T, as T a rounding of T, though Blass decides for the latter (Miller's Handb. i. p. 307, 1892). Rounding is admitted by the normal process on papyrus (cp. < with 5 (drachmae) ⊼ with ⊆ and ⊖ (talent) = with ∠ (2 obois)). But then in this case there was the need to distinguish by a chear form a special symbol. The origin of T may be, as Dr. Kenyon in an obiter diction has suggested, an arbitrary development from  $\P = 90$ , and there is nothing against the round form as the original. In point of date there seems to be nothing in favour of either: they may be said to appear side by side throughout the papyri; and a remark of Galen's (xvii. i. 525) seems to say that the two forms were regarded as alternative in his day (second century Λ.D.): ὁ τοῦ π γράμματος χαρακτῆρ ἔχων ὁρθίαν μέσην γραμμήν, ὡς ἔνιοι γράφονσι τὸν τῶν ἐνακοσίων χαρακτῆρα. But of course, he may be thinking of the cursive π, which was round.

I conclude that both T and T are well-established forms, contemporary in the whole papyrus period, and alternative in use; the question of the normal being still in abeyance.

## What occurrences of T the epigraphic sibilant and its shape?

The Halicarnassian inser. Brit. Mus. No. 886° (I.G.A. 500) (assigned doubtfully to the middle of the fifth century v.c.) has the words 'ΑλικαρναΤ[έω]ν, 'ΟαΤάΤιος, Π[α]ννάΤιος. Of these three, the lacuna after the T makes a little more doubtful the reading of the first both as regards the form of the letter (which is mutilated) and as regards its exact value; the second is supported by no other evidence; and the third depends upon a comparison with a Πανύα εξις as a common enough name (see a somewhat later Halicarnassian inser. B.C.H. 4, 295 ff., 525 ff.). It must, even with reductance, be admitted that there is here no epigraphic evidence which can be relied upon to prove a value for T.

The shape is exactly T-shape, of the same size as other letters, and plainly distinguishable from forms of T (Tau) which stand around it. ⊙ATATIO≤ is a particularly good reading as regards clearness of inscription.

The next word, the fourth on our list and the first ordinary Greek word in which the presence of T is even alleged, occurs in an inscription of Tees, on the Ionian mainland. It runs as follows: δέχοιτο ἡ ληίζοιτο ἡ ληίστας ὑπο-δέχοιτο είδὸς ἐκ γῆς ΤΗΣΤΗΙΗΣ: Η//ΑΛΑΤΗΣ: ΦΕΡΟΝΤΑΣ: Η//ακῶν βουλεύοι περί Τ . (LG.A. 497 B, 22, 23). For cpigraphic purposes at least, this is but slender support to T. The editor of the LG.A. (Rochl)

<sup>\*</sup> For this sign with another morning, note of occurring on a group of four or five estraka all temp. Domition which Wiloken (tetrake i. p. 96) thinks presented from one bureau. He notes that it occurs with proper manus and may mean H<sub>2</sub>(e2s) a name which is common. Again

Granfell, Hunt, and Smyly, Toltina's Papp., Pl. I., London 1902, note in index  $\uparrow = \pi/6 \chi exs$ ; (Pap. 5, 153).

The stone stands at present may the autuance to the Reading Boom.

prints AAATH€ in fainter type, and certainly one editor gives in his facsimile a bold T where some would read the T.

Besides these two fifth century insert showing T there are the Mesambrian coins (from Mesambria, a Megarian colony on the Pontic) of the latter half of the fifth and the fourth century B.C. These read

The dialect of the place is Doric, but Ionic influence might reasonably be postulated; as also might intercourse between this Thracian colony and the Carian Halicarnaasus where the above-mentioned inscriptions showing (7) T are found.

As these Mesambrian coins furnish the principal part of the evidence, it is necessary to examine them in detail. I have seen ten or twelve coins at the British Museum (and had the advantage of discussing them with Dr. Head and other gentlemen in the department) which exhibit the reading META or (between the spokes of a wheel)



in the clearest possible form. These coins are of the fifth, fourth, and third centuries B.C.—the proportion of uses of  $\Sigma$  or  $\Gamma$  instead of the older  $\Gamma$  increasing with time, until only  $\Sigma$  (or  $\Gamma$ ) is used on imperial coins.

The Berlin catalogue exhibits (Beschreibung der Antiken Minuten, Bd. I.) about fifteen coins showing META on most of them in linear order, on three or four in wheel-arrangement.

There is no attempt to date, but a facsimile of a wheel-META is of exactly the same type as a B.M. coin, dated of the fourth century n.c. It is noteworthy that side by side with this coin the Beschreibung classifies a reading

<sup>&</sup>quot; There is a third in Rochl's reading of 1, 15, but the letters are not legible in the inecr.

 $ME\Sigma A$  so that it is likely that the two forms  $ME\Sigma A$  and META can be found side by side in the whole period.

The shapes incline to m, three equal perpendiculars with cross-bar; on

the line and of equal altitude with other letters.

Thus it appears that there are extant at least twenty-five original occurrences in inscription or impression of T or m, contemporaneous within the timits 600-200 B.C. but representing only two small areas of processors, one in Thrace and one in Caria. Its sound-value is either  $\sigma$ , or a local substitute for  $\sigma$  (perhaps a deatal), or  $\sigma\sigma$ . It occurs in names only, and one of these a quite foreign word, if not both.

The question of the exact sound-value must be regarded as undecided,

but the following positions on both sides may be accepted:

For the value  $\sigma$ : (I) ME $\Sigma$ A and META are equivalent on the group of coins quoted, (2) the  $\sigma\sigma$ -interpretation of the Halicarnassian group is poorly attested as compared with the ME $\Sigma$ A-group, by about 4 instances to 25.

For the value  $\sigma\sigma$ : (1)  $\mu s\sigma$ - alternates with  $\mu s\sigma\sigma$ - (e.g. in the adjective  $\mu s\sigma\sigma s$ ), so that META( $\mu\beta\rho\iota\alpha$ ) may be a variant = Mεσσαμβρία, (2) 'ΑλικαρναΤ(εω)ν, 'Αλικαρνασσέων 'ΟαΤαΤιος, ΠαννάΤιος are used in the same inscription: (3) these occur in separate words, which restores the balance

as against META where only this one name can be adduced.

For the value τ: (1) Tan is a common Greek variant of Sigma. (2) There is nothing to deny the interpretations Mεταμβρία, Oατατίος etc. (3) The suggested reading [3]αλα[Τ]ης = 3αλασσης whose epigraphic slightness we have seen above, involves also a philological question. Why should not [3]αλαΤης be [3]αλατης | For the occurrence of τ in Deric of the same region note 'Αρταμίτως Ahrens Dial. 2553. The point has been submitted to Prof. Conway, who kindly writes an opinion which favours Mr. Witton's view of a desital value for T; and with this opinion Prof. E. A. Gardner concurs; so that there is no improbability in this alternative explanation.

The various interpretations which give intermediate values such as is have been discussed elsewhere, but there is a suggestion which would reconcile two minor facts which seems not yet to have been made. On the one hand, there is the fact that Byzantium, neighbour of Mesambria, used a (Corinthian !) form T or I's as the first letter (on come) of the name; and on the other, this curious T on the Mesambrian coins; and it is an obvious inference that if Byzantium used something looking like a Pi for the corresponding voiced labial Beta, Mesambria may have had something looking like a Tau for a sound which, as many theories agree in maintaining, was probably partly made of, or was similar to, a dental sound. And local modification of sound-values," represented in a modified letter form, is not unknown to the numismatist. Prof. Gardner, however, thinks the

Prof. Percy Gardner argues for Mesembria as = Midday.

<sup>\*</sup> So Pape, Wörterbach, s.v. Meenafipla.

<sup>\*</sup> Thre of or ( 3 may be (Mr. Hill engagests)

analogy weakened by the fact that Byzantium was Megarian and so \7" is more naturally referable to Corinthian \( \mathcal{L}' \).

What is the history of Mesembria,10 on the Pontine coast of Thrace, and on the slopes of the Haemus M., and in particular of its name | Strabo says (vii. 319) that it was a colony of the Megarians, and that it was formerly called MereSpia (olor Mera woker); that the termination -bria is in the Thracian tongue a town, in support of which he cites the mames Σηλυβρία, Πολτυοβρία. We need not notice his derivation from Μένα nor that of Stephanus of Byzantium axo McAzon, but the statement of the latter (whose mative home by the way was not ten Roman miles from Mesembria) is interesting, viz. that the earlier Μελσημβρία ... διά το εὐφωνότερον λέγεται Μεσημβρία, because it goes along with the statement of Strabo to show that there was always something uncertain about the promunciation of the third element in the word (later \$\Sigma\$ and \$\T\$); and that something suggested to a Greek I or a as part of the sound; and this is perhaps coming as near as local (mis !-) pronunciation would permit to the native sound. These liquids are both dental, and so also is t which in shape T suggests H Mulsambria, Mensambria, Metsambria, Menambria, Mesambria are all nearer together in daily pronunciation than the eye will easily credit, and just such varieties of transliteration of native sound have always been given by geographers, in despair of deciding between the unconscious addition and peculiarities of dialects and individuals (cp. the historic dispute Pekin v. Peking).

This, it may be replied, would certainly lead us to a local explanation of T, were it not for the Halicarnassian inscription with its 3 (or 4) occurrences of T. What had the two places in common, which might suggest a transference of the sign by ordinary intercourse? The answer is supplied by Strabo (tor. cit.) in the remark that Apollonia, just across the bay, was a colony of Miletus (Μιλησίων άποικος); as was also another town in the immediate neighbourhood, Odessus is (mod. Varna); and that the city of Istrus farther up the same coast was Μιλησίων κτίσμα. Even if direct intercourse cannot be postulated between the harbour of

an actual modification of # to represent the aird lablal corresponding to 8; just as in Indian coins of Gondopheres we get

## ΓΟΝΔΟΦΕΡΡΟΥ ΥΝΔΟΦΕΡΡΟΥ ΥΝΔΟΦΕΡΡΟΥ

which some equally to imply a palatalized form of Gamma passing through the fatermediate consenantly into the pure socials Y sound, as in gestim = yesterlay); and here the the medified Gamma '7' passing into Y comes at last to take the place of a Upstim, even in situations where there was more a Gaurus-value at all, that is it comes to be a new letter as in BACIAET C (Burnless) on come of Kadphress II.

"Strabo mills it MergaSpin (vi. 219), Herodotus MergaSpin (v. 83); and see (vii. 108) mother town on the Aegean coast of Thrace,

" Paper (Handworldon, A.P.) actually mays: and Muncon Merca-Boursel, but I think this is a interesting of META for META.

<sup>13</sup> έν τῷ μεταξύ δο διαστήματι τῷ ἀπὸ Καλλάτοδας εἰκ Απολλονίας Βιζώνη τό όστιν, ἢι κατνπόθη πολύ μέρος ἐπὸ σεμπαίν, και Κραινοί και Οδησκός, Μιλησίων άποικος, και Ναόλοχος, Μεσημόματών πολίχειον.—Strab, τίι, 319. Mesembria itself and Miletus, in any case people in towns on the same const and line of trade were going and coming. The support which the Halicarnassian inscription may have given to a theory of Phoenician or other Semitic origin for T rests on nothing now, not even the desperate challenge of a tenable alternative. Here we have one, far stronger than the Tsade theories which have been advanced (examined on p. 351 et sqq.).

In sum, the letter T appears on the coins of n Throwian town, which was in close association with neighbouring colonies of Miletus, in whose neighbourhood are found the only other occurrences of the letter. The evidence is somewhat in favour of an explanation of local Throwian origin and of transference by intercourse to Caria (and perhaps to the equally neighbouring Lydian

Tues).

What reasons exist for the identification of the two foregoing forms?

The identification of the episemon T. T with the epigraphic sibilant (?) T now derives its chief support from the relation which existed between the districts of Miletus and of Mesembria, co-operating as it does with the arguments which have fixed on Miletus as the place where the Greek numeration-alphabet was invented, and so (presumably though not demonstrably) the birth-place of T, 200. See Kirchhoff, Studien var Geschichte des Griechischen Alphabets. It is true that the Halicarnassian inscription is Doric, but Ionic influences have been shown to be at work.

The Achaean abecedarium from Metapontum, cited by Kirchhoff, has, if the tables in the Handbuch are correct, at the end of the row a sign +; while no M (=sibilant) appears. The Miletus numeral alphabet corresponds in arrangement with this, though the final sign is, according to the tables, possibly shaped T. But on examination Prof. E. A. Gardner observes that the tables are completed by Larfeld (and others) simply in deference to the theory, and that they consequently have no weight at all as evidence. We have here an instance of the circulus in investigands which has filled the handbooks with not a little useless richauft.

As, therefore, the Miletus numeration-alphabet does not, as it stands, conclude with T, we can only say that it is possible that the missing symbol was T and that possibly it was the same as the letter T of the Halicurnassian inscription.

What engraphic or other evidence exists for the identification of m with M (Teads)?

T the sibilant of the Halicarnassian (and I Tean) inscription and of the Mesambrian coins was welcomed by Clermont-Ganneau and other authorities as a new link in the slender chain of epigraphic facts concerning Tsade. This lead has been generally followed by the learned world <sup>13</sup> so that T would be a variant of M, the presumptive Tsade of the Greek alphabet.

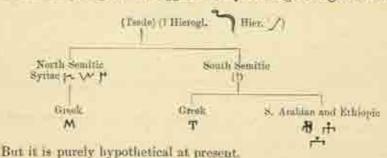
But a glance at the two forms is sufficient to ensure the postponement at least of any decision on the part of the trained opigraphist. Nothing that experience brings to mind suggests such a conversion as this presupposes. It involves a type T becoming, or being cognate with V; and though stranger things have been proved, yet it is only because they have been proved that they are accepted. Epigraphic probability is against it; there is no prima facie case. Moreover the first obvious consideration is unbelpful, viz. that if M and T are derived from or even cognate with |\(\tilde{\text{c}}\), then there must be some relation demonstrable between the forms. Now, \(\text{''}\) may conceivably have come from |\(\text{c}\), though not very obviously; but that a symmetrical form like T should come from such an asymmetrical form as |\(\tilde{\text{c}}\) is universally (in all its variations) is hard to believe on the mere evidence of the forms.

What is wanted is full documentary evidence by which M can be traced in a number of intermediate steps to some ancestor of T. This is not forthcoming. The best thing which can be produced is an analogous instance of the development of the presumptive original in This comes from the Sabaean and other monuments of Southern Arabin. 11

Here we have

These are probably of the sixth century B.c. or later, and in the Ethiopic Tsadai of the fourth century of our era we have

We should thus get, as a suggestion, a possible genealogical relation;



<sup>&</sup>lt;sup>13</sup> See Larfeld, Griech, Epigr. 1901 in Muller's Handbuch i. pp. 208; 510 sep, and Kirchhoff, Sindien zwo Genhichte'der Gr. Alph. Guterstah, 1887, pp. 168 sep. See also Bergk, Griech. Litterotherpesch, i. 189° for definite reasons equinat M=T. I. Taylor, The Alphabet i. b. 93, etc., univesitatingly abides by this

generalogy, viz. 「C C へ T M L

<sup>&</sup>lt;sup>16</sup> Cp. for the rounding perhaps P of the Chaldean Alphabet. See D. H. Muller, Epgraphische Deukwäler aus Archite; and the Tables of Semitic Alphabets.

Winckler and others following him endeavoured a few years ago to prove great antiquity for the S. Arabian and in particular the Minaean inscriptions. Had this been established it would have been important in the M=T or Tsade-question; because it would have given us a form of sibilant as old as the Mesa-stone (~, and presenting the type  $\rightleftharpoons$  which does show similarity epigraphically admissible to the T sibilant.

The vigorous attack made on Winckler's theories to by the experts of the Egyptian and Assyrian department of the British Museum to have conclusively disproved to the tempting assumptions therein made. It is clear that nothing can be maintained concerning a S. Arabian empire under Minacan kings nor can the existing inscriptions be held to be older than

the reign of Cambyses; they are perhaps of the fourth century B.C.

Had Winckler's contention for a very ancient date of the S. Arabian Sabneau and Minaean inscriptions been maintained, these similarities would have had more significance. It would not have been impossible then to regard & as a possible ancestor of T, as it is now. We can only say that if intermediate links could be found, the S. Semilie & might prove to be a cognate of T and so identify it through Trade with m.

What is the established place and value of M, the old Greek sibilant, and its relation with a Greek numeration system?

It is an important fact that a letter (not Rho) is found in primitive Greek alphabets, in the eighteenth place, following Pi, where Rho now stands.

The abecedarium found at Formello, perhaps of the sixth century a.c., contains the following:

which corresponds, save for the presence of M, with the modern Latin order or QRST, and omitting M and 9 with the Greek order or por

Next, the abece larium from Veii reads

Pallowed by Hr. Giner, and stated by Prof. Sayoe: The Higher Criticism and the Monoments, Oxford, 1893.

They have not been answered, though Dr. Winekler dealt again with the matter in the Hibbert Journal in 1904.

<sup>&</sup>lt;sup>10</sup> See articles by Mr. R. C. Thompson, and Mr. H. R. Hall in Nature, Sept. 25, 1982, and June 26, 1982 respectively. Epitome of the results by Irr. Hadge in his Hist. of Eppl, vol. vi. Intro.

Is the Samuritan and Rabbinic alphabets the form of capital 2 is In (5 f) =90. This is of course very remote from amount Grook letter-forms; but it shows once more a striking numbers for the development of jo.

and those of Metapontum and Corinth (Roberts, i. p. 19) have no M in this place (between  $\pi$  and Q) but have it between Rho and Tau, in the usual place of Sigma.

The alphabet of an inscription found at Mantinea (Forgères, B. 16, 569 f. n. 1, Taf. 19, quoted in Bursian, Supplied. 87, Larfeld's Art. p. 193) is as follows:

# A CAENFOIKADNON

But the sign between P and R, Larfeld says (loc cit.), is "ssade=ss."

He adds that w is the sign already known 18 as Ssade in the abecedarium of Caere. 20

Thus it appears that between Pi and Rho there was originally a place reserved for a letter which cannot be identified with any form of Sigma, but which has a sibilant or partly-sibilant value.

Side by side with this fact stands another, that  $\underline{\underline{u}}$  is eighteenth in the Hebrew alphabet— $\underline{\underline{u}}$  being the letter correspondent to the Mesa inscription  $\underline{\underline{u}}$ —and there holds the numerical value which the missing  $\underline{\underline{M}}$  would have had in the Greek alphabetic notation (a value taken by the next in order, viz.  $\underline{\underline{Q}}$ ).

The Hebrew records do not ascend higher than the second century E.C., while the Greek abecedaria must have an antiquity sufficient to account for their being unfamiliar to the inventors of the Greek system—placed by one theory as far back as 800 B.C. and by none later than 450 B.C.

Still it is almost on these facts alone that the theory rests that p., Tsade, may be assigned a definite place in 'Phoenician'-Semitic alphabets; and that M is in any case to be associated with the value 900. This is a small enough basis for a theory which exists chiefly because of the natural antipathy to leave T = 900 unexplained.

Is the last too bold an assertion ! It can be defended.

For what other reason has Tsade, as such, ever been associated with the Greek alphabet numeration? It cannot be answered that Tsade was the only missing letter required to complete the parallel with the Hebrew or

\*Ane der Alphabetreihe von Care (vgl. meine Griech, Epigraphik S. 505) bekannten Zeichen für Saufe.

\*\* Decke says (Hurrison, Jahrent, Seppilet. 87 p. 27). Due princetinische X ist auch remettisch, kamponisch, Salaliisch = kapenatisch ⋈ eine Art s (etwa se l'a etc. aucesca).

But this seems rather to be  $\xi$ , ep. the old findian inscription in the Necropolis of Esta (text Venice)  $\epsilon$  a. e. v. a. b = III i. k. i. m. n. s = p  $\triangleleft$  o. p. a. r. u. t. n.  $\varphi$   $\searrow$  Bussian.

Mid. p. 121 (C. Pauli, Allitatische Forschungen III. Die Veneter und Ihre Schriftdenkunder, Leipzig, 1891, p. 186).

The aft-quoted saying of Herodoma I. 139 has been, addity enough, brought in to support various Tesds theories; whereas it plainly says that San and Sigma are equivalents, and this agrees with the facts which directly associate Sigma with Shia. Why not then accept this plainer meaning! San is very improbably Teels, while it most probably is Shin.

other Semitic alphabets. No, for T (=900) does not occur in that part of the numeration alphabet: it comes if at all among the supplementary signs Y  $\varphi$  X  $\Psi$   $\Omega$ , and it must come, even then, after the last of them, for the Milesian numeration alphabet could have had it is that place only, and that only on the assumption of a missing sign. It cannot be urged that it is more scientific to discover an older letter in a new form than to have recourse to the theory of an arbitrary invention; for the only safe suggestion concerning  $\varphi$  X  $\Psi$  at least is that they are such inventions—and why not T too?

It cannot be urged on the ground that T bears a striking resemblance to T the sibilant; for X=x, or  $\chi$  bears an equal resemblance to the form of Semitic Tau, for instance. On the other band, the absence of the sibilant from the eighteenth place certainly does not suggest its re-appearance after Omega; for, prima facic why should the antiquarian knowledge of the inventors have just sufficed them to recall the sibilant and yet not have gone for enough to give it its right place, according to the abecedaria, seeing especially that it did suffice to give both Qoppa and Waw their own places (and the Hebrew values)?

The meagre conclusion is that M is the letter which corresponds to Tsade, and that it is not yet to be identified with the rare T.

It may be necessary to reply to the challenge to account for M and T as rival forms of the sibilant = Tsade. This is not difficult, if we abide by the proved facts. M has overwhelming claim to stand as the accepted candidate for the position. Its areas of provenance are shown even by any table of Greek letter forms to be twenty times as numerous as those of T; while in the number of its individual occurrences in Greek inscriptions M must outnumber T by many hundreds. It is only the difficulty of accounting for the sibilant T (supposing always that it is a sibilant = or and not a variant of a corresponding dental, and so perhaps a variant of  $T = \tau$ ) which has led to its being seriously brought forward as derived from Tsude. For myself, I have never seen the need to doubt the well-known statement of Herodotus that San = Sigma, or to suppose that San is Tsade. It does not come within the scope of this investigation to consider the very large question of the inter-relations of Sigma, San, Tsade, and Shin; but it is quite obvious that if San=Sigma be left alone as representing Semitic Shin; then M is naturally Tsade; and T is nowhere. It would be a very great relief from many complications if T had not to be considered, and on the residuum of actual proof it has no claim at all to consideration side by side with Z and M, which are, what T is not yet shown to be Greek letters in common use.

Is it proved that the Phoenician ≈ was the Semitic alphabet adopted in Hellas !

And have does this affect the conclusion M = r ! And what of m!

The net result of combined historical and epigraphic research seems to be this:

- Tradition speaks plainly, though not exclusively, of the Phoenicians as the givers of the alphabet.
- (2) Popular current opinion believed in Φοινικήτα.
- (3) Old Canaanitish and old Hebrew inscriptions use alphabets showing close affinity with the Greek.
- (4) The evidence of Greek inscriptions points in some cases clearly toward Phoenician types.

The nature of this affinity is far from proved. The ancient belief in direct descent is much weakened in modern days. Even a cognate relation is denical by some theories. At most a common Semitic origin may be postulated for Hebrew, Moabite, and Greek.

A really judicial estimate is rendered difficult by the unconscious prejudices which prevail; one of these is the assumption that a language whose signs can be found to fit into the Greek alphabetic order must also have used the same alphabet; whereas it may very well be the case that the two sets are only similar because the sounds were similar, especially when, as in the present case, an alphabet exists on one side only, and the application of the signs from the other side thereto shows very considerable discrepancies and laguage which cannot be accounted for.

The residuum here is given by Larfeld when he says \*\* (Handbuch, p. 495): the Phoenico-Hebraico-Greek alphabet (wands and signs) which from Semitic lands opered into all the peoples of our civilization, the turning-point in whose culture-history is marked by its arrival, is to be truck back to one

The sintenum that the Phoenicians' invented our alphabet is inexact. Phoenician in according to Kautzsch's Gennius Hebrie Grammer, strictly only a branch of the Middle Semitio or Cananuttish, which fixelf is only one of three great branches using this alphabet. Similarly regar is the statement that the Greek alphabet is derived from the Phoenician (see for example Kirchbott Stat. and Greek alphabet is derived from the Phoenician (see for example Kirchbott Stat. and Greek alphabet is to other in some respect order in form. . than any extant monument (E. A. Bardner, The Kerle foods Alphabet, 1886, p. 15-1 and see possion for uses of the term).

The Hebrew names are not no essarily the Semitic names any more than the numerical calms are Semitic. A politic principle so me to me to be in the repeated argument one meets from the phase of Teach and other letters. There is no "plane" of a mining Greek letter known, except by the assumption that the Hebrew alphabet order was also the Semitic Once gain the point that ("- was eighteenth in an assumed Semitic alphabet, such as Phoenician or that of the Measure stone, and one has immediately a (perhaps talse) premise for many dodoutloss about M in Greek.

<sup>&</sup>lt;sup>38</sup> Quating from Henrich's Gr. Epigr. pp. 561-575.

time and to one home, which, wherever it may be found to lie, is near Egypt.25

The epigraphic facts for this conclusion are incontestable:

- (1) The Mesa-inscription (ninth century) from Moab can be read by the help of the Greek (7 ninth century) and the Hebrew alphabets (Siloam inser, ninth century; coins from second century BC, See a, 29).
- (2) The tables of alphabets from all Semitic lands show unmistakeable parallels. See P. Berger, Hist. de l'Écriture dans l'Antiquite, 1891; I. Taylor, The Alphabet.

But the statement does not hold good of every particular case; some letters are quite unexplained, may be non-Semitic, or may be inventions.

## What then of M? Is it identical with the Semilie p. !

The conspectus subjoined of the forms of p in Semitic lands shows how reasonable is the view that the letter which became p in the Semitic became M in the Greek alphabet.

Nothing more can be said, as the forms nowhere give M and no intermediate links are found.

As nothing but ocular demonstration can be convincing here, and that only if extended over a large field, I here present a conspectus of all those forms which are assigned by anthorities in oriental and general alphabetology to the representatives of the Hebrew 2. Tsade, or the Phoenician p. This letter appears throughout to be of one type, viz a composite lotter made of a vertical 20 with a hook of some sort on the night-hand side (only). See for instance Lidzbarski's tables in the Ephemeris für Benefische Epigraphië 1/ii, 1901, where he studies the character in old, middle, and new Phoenician, in Aramaean, Nabataean, Palmyrene, square Hebrew, and other groups, and finds it always of this type,

P. Berger in his Hist, de l'Écriture dans l'Antiq. 1891, gives a complete conspectus of alphabets in which the forms of Sade are given as under:

## In South Semitte Alphabets.

Himyarite	Bia:
Ethiopian	Δ×
Ghez	A
Safa	1
Berber	20.8

Every year brings limb confirmation. Securities in "Archaeological discoveries in Crut-and Egypt," Nature, July 9th, 1968.

In some forms this first stroke inclines considerably;

### In Aramacan Alphabets.

Archaic	12
Papyrus	- 31
Square Hebrew	7.
Palmyrene	90
Nabataean	The second
Estranghelo	4
Syrine	3
Others	1201

### In Hebrow Alphabets.

Mesa (900 B.C.)	p-
Silvam (700 B.C.)	de
Temple coins	2
Samaritan (developed about third century a.D.)	277
Hebrew	M

## In Phoenician Alphabets.

Archaic	MY
Sidonian	r
Panie	77
Transition	r
Nee-Punic	h
Hebrew	201

These lists are incomplete as to variety of forms shown, but they serve for a first glance which shows us that while they generally justify belief in  $M = \infty$ , only in South Semitic alphabets do we find any development analogous with such a form as T. The Samaritan of course would be very analogous, but its late date makes it useless in the present comparison.

As I have maintained on another page, Sabaean and other Arabian alphabets are extant only in monuments for which a date sufficiently early for our purpose cannot be claimed; so that unfortunately nothing is at present to be inferred from the apparent analogy to which I point between T and S. Arabian forms of Tsade. The contrast, however, between this analogy here and the total absence of any suggestion of analogy in the North Semitic forms is so striking that it deserves to be well established for so much as it may be worth at least. And Lidzbarski gives (Ephemeris for Semitische Epigraphik, vol. ii. pt. i. 1903) this large collection of the Arabian forms:

Cariously enough a sign which does really resemble @ or T is the letter

¬ (h) which appears as ∧ and ∩ (often)!

Ställ the Sahaean 2 is not very divergent, and this makes more remarkable the total divergence of the North Semitic forms, which Ladzbarski gives in the full tables in the companion volume to Die Schrift der Nord-Semitischen Inschriften in the Handbuch der Nord-Semitischen Epigraphik for 1808 as under:

Phoenician

トレンレントトレレト

6414111 6414111

Aramacon.

Square Hebrent

115

Old Hebrew and Samaritan.

(The last is of the sixth century A.D.)

It will immediately be noted that the North Arabian forms diverge markedly from the Sabaean and others of South Arabia. Lidzbarski in the Ephemeris (loc. cit.) p. 33 protests rightly against the attempt to identify the two types & and B, misplaced ingenuity having led some one to argue for  $\bowtie$  as intermediate between the two !!

North Semitic and North Arabian forms being equally impossible as ancestors of T, there remains only the supposition that the Sabaeau 4, in one remote corner of the Semitic world, was a local form, as in was in another.

What is the historical relation between the Greek alphabetic numeration system and the parallel Hebrew system?

Whatever may be the ultimate conclusion of archaeology concerning the relation between the Greek alphabet and the Phoenician, this question only indirectly affects the question of the numerical system. For the Phoenician numeration of the monuments is quite different, non-alphabetic, and only

resembles Greek, Egyptian, Latin, and other systems in inclining generally to the decimal "basis. The Phoenician system which we know is the ancestor neither of the later Greek nor of the later Hebrew systems.

I have collected from the Corpus Inscriptionum Semiticarum and elsewhere a number of illustrations (of which the following may be mentioned) to satisfy myself that the Phoenician system was really different C.I.S. i. p. 31 n.; 165 Tab. xxxvii, l. 6; i. Nos. 7, 10, 11, 12, 21 (Tabb. iii, v. xi. v., vii, resp.). They are of the third or fourth century B.C. and are sufficient to show that the scheme was this;

And this is sufficiently inconsistent with any Latin or Greek system to make any relation improbable.

On the other hand the Hebrew numeration system is, for the first seventeen letters at least, strictly parallel, and for the remaining five (of the Hebrew) differing by one place only; and it is a commonplace of the Hebrew grammars that this was the (later) method of numbering in antiquity. This system was as follows:

Ĺ	N (a)	10 + (4)	100 p (Q)
2	± (β)	20 ± (k)	200 ¬ (p)
3	3 (y)	30 5 (X)	300 🕶 (\sigma)
4	7 (8)	40 5 (A)	400 m (T)
5	FT (e)	50 5 (v)	500
6	1 (F)	60 p (E)	600 made up by
7	+ (5)	70 y (o)	700 combining
8	(n)	80 (11)	800 the foregoing.
9	τ <sub>0</sub> (θ)	90 ½ (?M)	900

But what is the meaning and value of the parallel? The statement that this was the later system refers to the notation used in the inscriptions and MSS in the ordinary Hebrew square character. Now the upward limit of the sources for this character is not earlier than the beginning of the second century B.C., only rare instances carrying us into the prae-Christian era. An inscription of 176 B.C. is mentioned by Kautzsch in Geschins' Hebrew Gram. (1898) p. 24 as one of the earliest. I subjoin a nots 29 from the latest edition which embodies perhaps the most current opinion in oriental circles.

Semitic; so also Old Italic Alphabeta. That in default of special arithmetical figures the consonants were also used as numerical signs. The earliest traces of this usage are, however, first found on the Maccabean coins (i.e. of John Hymanus and his successors, from 135 a.c.).

E Bussian, Johrest, Supplied, 87.

<sup>&</sup>quot; / = 100 is doubtful

To this effect; that both the order and names of the letters, together with their numerical values have passed over from the Phoenicians to the Greeks in whose beggings the letters A-T are horrowed from the old

But I note that this is no more than judgment

The matter then stands thus; neither the Greek nor the (nearly) parallel Hebrew system was the same as the Phoenician; there is no proof of the employment of the Hebrew before the middle of the second century a.c. at the very earliest, so that the Hebrew may quite possibly have been an adaptation of the current Greek system to the existing Hebrew alphabet.

What is the point of agreement yet reached by Oriental Scholars as to the affinity between the Semitic and the Egyptian alphabets!

M. Lidzbarski writing in 1901 on Der Uesprung der nord- und sudsemitischen Schrift (in Ephemeris für Semitische Epigraphik) expresses the
opinion that the Phoenician alphabet was an imitation of the Egyptian, the
invention of a man of Canaan, who knew of the existence of the Egyptian
writing, but who did not know sufficient to copy it directly, and was driven
to rely upon his memory and his inventiveness. But, as he arges in
another place, Die Schrift der nordsemilischen Inschriften in Handbuch der
nordsemilischen Epigraphik 1898, the mere fact of similarity between the
Phoenician and the Mesopotamian, or between the Phoenician and the
Egyptian alphabet systems is quite insufficient ground for arguments as to
origin. And as for hypothetic sources these are many (see e.g. A. J.
Evans Prim Pictographs and a prac-Phoenician script from Crete and the
Pelaponnesus in J.H.S. xiv. p. 270 ff.). Delitzsch's attempt to establish
by new arguments (published in 1897) a Babylonian origin is, in Lidzbarski's
opinion, as abortive as the rest.

In 1902 the Council of the Society of Biblical Archaeology asked the leading Egyptologists of England and America for their opinion on this question of affinity between the Egyptian and Semitic languages. The result was the collection of the most varied opinions which may be thus classified:

- (1) that there is the closest affinity
- (2) that there is no affinity
- (3) that there is derivation of alphabetic forms without affinity between the languages
- (4) that there were many borrowings without any affinity.

by drienly, there being very little of Old Hebrow of all. The remains are, in fact

(1) The Mella stone, 9th u.c.

(2) The Siloum-inscription, perhaps oth n.c.

(8) Twenty wal-somes, some pre-callle but bearing little except proper names.

(4) The Marcabean come, late Ind n.o.

Dr. Linnel Harnott of the Oriental Department of the British Museum kindly remitted to me in 1905 the following statement which may be inkers as the view at present a wordlist of As the Greeks received the Semitic alphabet, airmady in a fixed order, and are found already making it for aumerical purposes at least by 800 me. It is probable that the Semites also med it aumerically before them. As this contribution strives to show, every one of these statements is at present hypothetical

The conclusion may be said to be that while there is sufficient resemblance to justify a suggestion of affinity, affinity is not proved, and direct descent (of Phoenician from Egyptian) is maintainable as a hypothesis only for the aphabetic forms, if at all.

Upon what is based the explanation of the complementary letters of the Greek alphabet, and of the adoption of T = T sade to complete the list for the purposes of numeration!

Kirchhoff declared in 1877, in the preface to the third edition of his studies on the history of the Greek alphabet, that the time had not yet come <sup>30</sup> for the writing of such a history. The excavations and labours of the thirty years which have passed since that atterance have brought us not much nearer to the necessary material.

The arrangement of the alphabet for purposes of numeration was made after the juch sion of  $Y \oplus X \Psi \Omega$ , for these all receive numerical values. Before therefore it can be asserted that the sixth 'complementary' was added in such and such a way, it is necessary to know what the foregoing five themselves were.

What is Lucien " of Y o X Y A!

First that they occur all together, or with one omission, in a few groups of the seventh, sixth, and fifth centuries R.C. using alphabets of Asia Minor, viz.:

 in the Naukratis group = (650-520 s.c.) with four clear and three doubtful instances of φ; seven good instances of X, and a large number of omegas.

Lenormant died eithout having had the assistance of some monuments which have since muste possible such advance as has been made; so that his conclusions must reluctantly be put ashis as out of date. The Mesa stone is not considered to his article on the origin and formation of the Greek alphabet, in 1873. This was discovered by Ciermont-Gannaan in 1870 and published by him in 1873 in the Report Arche Ogram.

at Apart from this much value in an investigation so intricate unset he attached to sound theory, so that a brief bibliography of the topic for the last twenty years may be

welcome :

Wilmowitz-Morilendorff, House tacks Unitersechungen, pp. 288 ff. 1884.

E. A. Gordner, "The Early Jonic Alphabet," J.H.S. 1886.

Kirelchoff, Sindien zur Geschichte des Greeckischen Alph, 1887. E. Sganto, 'Zur Gesch, des griech, Alph.' in the Mittheologyes (Ashens), 1890.

F. Kalinku, 'Eine Bointiache Alphabetvass,' in Ath. Millh 1892

W. Larfold, in section Greek Enign of Van Muller's Handbuch, 1891.

W. Schmid, 'Zur. Gesch, d. groot Alph.' in Philologue, 1893.

P. Kretschung, 'Die Sekunderen Zeichen des griech, Atph.' in Ath. Mitth. 1898.

M. L. Enrie, "Supplementary signs of the Gh. Alph." in Jun. J. Ayek, 1903.

The last named reviews all the foregoing and adds his own views. He makes a valuable classical reference to Aristotle Metoph, 1993 a with Syrianus, Schol. Arist. Metoph, p. 1940) the arguments of Archims in commanding to the Athenians the introduction of the looir stiphalett.

E. A. Gardaer, Inversitions from Nan-Erntis, 1884-5.

- (2) in the Teos inser, seventh R.C.
- (3) in the Abu-Simbel inser.
- (4) in the sixth century Amorgos inser.
- (5) in the fifth or sixth century Halicarnassus inser. (here also perhaps T = σσ).
- (6) in a fifth century inser, of Tarentum.

If we count all the inscriptions of the seventh, sixth, and fifth centuries which have Ω, though not all the other four at the same time (several omit one only), we then can add ten inscriptions from Asia Minor, eight from the westerly isles of the Aegean, and a sixth century inscription from Laconia. Other inscriptions corroborate, though they omit Ω. It can thus be said that more than twenty-three inscriptions prome the existence of Y, Φ, X, Ψ, Ω on the Greek alphabet between 650 B.C. and 450 B.C., two of these (not the oldest) having also T.<sup>25</sup>

Now Kirchhoff has maintained that the alphabetic notation involving the completion of the alphabet was in use at latest in 800 n.c., and that this was first in Miletus, but the arguments of B. Keil (in Hermes, vol. 29, pp. 248-280) in favour of a later date (550-425 n.c.) and a Dorian origin in Halicarnassus are weighty enough to prevent the statement that the earlier date is proved. It is only fair to say that Kirchhoff's authority is very high and this date has been passed with universal consent. I can only say that I cannot find the proof of it on epigraphic facts of independent reliability.

From the datum above emphasized, which is the only indisputable epigraphic fact concerning the origin of these letters as a group, the discussion has proceeded in a very earnest manner to the explanation of their origin and entrance into the Greek alphabet.

In the Revue Archeologique, 1884, B. Haussoullier re-publishes the conclusions of the discoverer of the Meša stone, Clermont-Ganneau, concerning the complementary characters of the Greek alphabet,  $Y \oplus X \stackrel{\text{pl}}{Y} \Omega^{\text{pl}} M$ . Haussoullier there makes this remark: 'il faut s'habituer à les considérer [the epigraphic forms] sous toutes leurs faces, à les décomposer, tourner et retourner (comme faisaient les anciens eux-mêmes, les Argiens par exemple qui conclinient la  $\mathbb{H}$  m lieu de la laisser droit  $\mathbb{E}$ ).' This observation is fundamentally unsound and misleading.

It is not true in general that one letter was made out of another in the old alphabets by simply turning it on its side or inverting it. Alterations of position do occur, but either the change is made very gradually and unconsciously; or else the apparent inversion is the result of some external cause, e.g. when the direction of the writing is altered, the letters all turn round. In particular, M. Haussoullier here chooses an unfortunate illustration, for the

" Originally put by Clermont-Gamman in

<sup>##</sup> If we secept [3]axaTer (see above),

is not necessarily \(\mathbf{\pi}\) turned over, since a more complex form existed, viz. \(\mathbf{\fi}\) in the three Etruscan abecedaria, \(\mathbf{\pi}\) which suggests equally well \(\mathbf{\pi}\) and \(\mathbf{\pi}\).

The results of Clermont-Ganneau's attempts to explain  $Y \Leftrightarrow X \neq \Omega$  are simply these: that (be suggests) Y preserving the Semitic form was relegated to the end of the alphabet, F (= E docked of one cross-bar) taking its place above; that  $\Psi$  was made by lengthening the vertical stroke of Y; that  $\varphi$  (= phi) is simply a new application of  $\varphi$  (=  $\varphi$  oppa); similarly that X is another application of the Semitic X=tau; that  $\Omega$  is the Phoenician  $\varphi$  left open  $\varphi$ ; that the whole of this was done upon two principles (1) contiguity, (2) antiquity of the adopted form, i.e. the neighbouring letters were chosen, and of them the oldest forms then known.

In this brief form the statements, I fear, are not very clear, and do not treat quite fairly the very careful consideration which Clermont-Ganneau gave to the complexity of the problem. For suggestiveness and ingenuity these explanations are as good as any. They are quoted as an example of the stage at which the investigation stands in numberless paragraphs and

articles which have been devoted to the subject.

Not one of these explanations can be proved, and competing theories have quite as good a right to consideration, as for example Deecke's, which would refer the whole group to the Cypriote syllabaria. The newer explanations have the advantage of making use of the later discoveries, as for instance this Cypriote origin uses the excavations of Prof. Flinders Petrie at Naukratis, an Egyptian colony of Miletus. While a question is still open, it is important to bring into the field of discussion every possible theory for which a good case can be made out.

Nothing useful has been added to the careful and very full summary which Larfeld gives in Muller's Handbuch, pp. 515-521, and the net result is that the group  $Y \Leftrightarrow X \not\vdash \Omega$  is probably an adaptation made by the Greeks themselves of some signs of unknown origin as an addition to the Semitic alphabet

which they first used.

Such being the uncertainty which covers the question of  $Y \Leftrightarrow X \neq \Omega$ , themselves well attested letters, what profitable argument can be maintained concerning the origin of T, which does not occur in any list of numerals con-

taining the supplementary signs !

There is, therefore, no direct evidence, epigraphic or other, of the inclusion of a sign for 900 of the shape T, with the supplementary signs of the Greek alphabet used for numerical purposes: that it belongs to them is an inference from the later use of T=900, and from the fact that one more sign would have completed the supplementary list for this special purpose.

The atmost that can be proved then is that for 900 the Greeks apparently adopted a form T which was also, in a restricted employment, well as a sibilant letter T. The principal arguments are summarized under the

next head.

<sup>16</sup> See Müller's Hamibuch, vol. i, pp. 505-511. did not pass into Greek,

<sup>\*</sup> Sadé he dees not explain, as perhaps it . As shown above, pp. 844 f.

What is the present state of learned opinion pointing to the supposed selection, by the inventor of the Greek numeration-alphabet, of the letter T, to stand as the sign required for 900? And how is the Hebrew divergence 28 in the order of the numerals at this point to be explained?

Larfeld's conclusion (Greek Epigr. p. 544) against Keil's (Hermis vol. 29, pp. 249 ff.) places the birthplace of the Greek alphabet-notation at Ionian Miletus, not later than 800 g.c. Keil holds that the birthplace was in the Dorian Caria, probably the town of Halicarnassus, at a date not later than 450 g.c., and not earlier than a century before that date.

Larfeld's arguments which summarize the opinions of scholars may be condensed as follows, as regards Tsade in particular.

The Milesian alphabet in the minth century a.c. contained 26 letters in the following order:

An addition of one more made possible an arrangement into three groups of nine each, which then could be systematically employed on a decimal principle, viz.:

Now it happened (so the argument runs) that just recently—as the Naukratis inscription of 650 which uses only ₹₹ = σσ shows—the Greek alphabet had dropped  $T = \sigma \sigma$  from its place, viz. 18th, so that it was chosen for the sign, being placed at the end of the line, with the value 900. In pages 140 agg. Larfeld thoroughly considers the subordinate questions suggested by the retention of Van and Coppa in their own place, as against the displacement of T (Tsade 3); and rejects (p. 150) the obvious objection that T may not be Tsade as all, but a sign invented or borrowed from a neighbouring barbaric alphabet; as for instance the suggestion that all the complementary letters were borrowed from the Cypriote syllabaries (E. A. Gardner, J.H.S. vii. (1886), pp. 223 sq., developing the hypothesis of Deecke). Larfield points out wint has been urged as to the bearings of the three abecedaria (Chalcidian of the Campagna 46) found at Veii Caere and Sens (p. 505) and considers it highly improbable that they could have been alphabets in actual use at the time-antiquities then! The subsequent history of the alphabet-notation of Miletus he thinks followed that of

Sikyon even in the liftin.

<sup>&</sup>quot; In the Hebrew order 2=30.

<sup>&</sup>quot;Tode, Larfeld says, p. 149, was a living latter in Corinth still in the seath century, at Melos in the second half of the sixth, and at

<sup>\*</sup> So Kirchhoff, 88mt. = O. n. y. A. pp. 134

the alphabet of sound-representing letters, gradually spreading through Ionic lands, and slowly, after centuries of strife with the current alphabets, also through the rest of the Greek world—even in conservative Athens, being received in 403 n.c.—and at last, as the Milesian alphabet displaced the other surviving alphabets, the numeration system triumphed with it over all the Greek world, at about the close of the prac-Christian era.

This is no doubt an unprejudiced summary of the main balance of the arguments for the inclusion of T among the numerals. But it is evident from the non-agreement concerning the essential particulars (the actual elements of the Milesian sound-alphabet, the date and birthplace of the numeration system, the origin of the complementary characters) that the summary embodies nothing more than the expectations of trained minds, perfectly acquainted with the fields of archaeology in which these questions lie. This is much. The regrettable circumstance is that by constant re-statement these theories of general soundness have been taken as proved in detail

The knowledge based upon epigraphic and historical facts is limited to this: the most complete numeration-alphabet existing in the remoter centuries comes from Miletus; it has not the sign for 900 T which is found in papers with that value; there is a rare sibilant (1) T whose shape is identical with that of the episemon T=T.

There are a few minor facts which are at least very curious. One such

is that the Arabic kha=600 ( $3 = X\chi$ ) and Arabic za=000 (7 Sade).

But, as Lidzbarski i remarks, this is like bringing 'Avaxxwe into comparison with Napoleon,

Coptic has taken since the Christian era the numeral Sampl in the form

(U), value sh, = 900 (Tattam Egyptian gram, 1865).

Of much more weight than either of these is the fact that the Hobrew alphabetic numeration is exactly parallel with the Greek for the first seventeen characters, i.e. to the letter preceding 2 and the missing M; and that after this point is passed the Hebrew values are each one step removed below the Greek values, the difference being due to the presence or

absence of 2 in the two systems respectively.

It is impossible to omit an enquiry into the meaning of this singular divergence. The simplest explanation is that the Greek lost M while the Hebrew retained 2; so that when the Hebrew adopted or imitated the existing Greek system (there is no inscription with these numbers in Hebrew before the Hyrcanus coins of 135 n.c.) it inevitably departed from its model at this point. If this is true—and there is nothing to show that the Hebrew system is either original or ancient—then it leaves the Greek system still to be explained independently. This independence of the two systems (except as regards the method) seems the more likely from the fact that the Hebrew, having no "supplementary" letters after T, ended its

<sup>40</sup> In criticism of Gundermann's (worthless) The Zahltotoles in Sphroseric für Scurt. Engreph. p. 106.

numeration system with that number, and made up the deficiency as regards 500, 600, 700, 800, and 900 in another way.

At present the only facts established seem to point to a date as early as the ninth century a.c. for the invention of the Greek system, and of the Hebrew system five or six centuries later. But rival theories exist which bring the former much lower down, and there is nothing against the assumption that the Hebrew system was used somewhat earlier, so that all the dates may possibly converge upon the latter part of the fifth century a.c. shortly before the time when Athens adopted the Milesian alphabet. It was a time of great activity of intercourse among the Greeks, Semites, and Egyptian races.

Believing in the possibility of a common origin, in time at least, for the Hebrew and the Greek alphabetic numeration systems, I have tried to find anything that might be offered as proof, but have found nothing, so far.

# Why is no called Sampi !

The result of some further search is that I have nothing to add to my remarks in my 'Sematography of Greek Papyri,' J.H.S. xxii. (1902) pp. 144, 145; and above, pp. 338-9.

In addition to the improbability of any real relation of neither with San or with Pi, there is the obvious objection that the name Samplis very late, in the second half of the seventeenth century, says Keil (Hermes, 29, p. 267). One may, without fear of contradiction, make the simple statement that it is a fanciful explanation, showing a little superficial acquaintance with Greek letter-forms, though San had passed out of existence centuries before appeared, and with  $\pi$  either as letter or as numeral the symbol could never have had anything to do.

# What evidence is there of the passing of T into D?

The question is asked here simply to supply the last of the links in the long chain, which we have thus examined one by one, but I do not think it profitable to make laborious proof of that which everybody knows. One point, however, is worth note, viz that instances of ,, with two legs, can be found earlier than the ninth century, the date usually given in the textbooks. It certainly occurs on earlier ostraka (See Viereck on 'Die Ostraka des Berliner Museums' in Arch, für Papischy I. iii iv. 1901, p. 453 299.) as a side by side with T and a.

My own conclusion from the sum of the arguments is that the Ionic alphabet has been shown, not yet by rigid demonstration but by reliable deduction, to be Semitic in origin, and related with Phoenician, either by direct derivation or as cognate; and that sufficient proof has been forthcoming of some distant relation between these Semitic alphabet-forms and those of the Egyptian alphabets, though affinity between the languages is improbable. These Semitic elements of the Ionic alphabet were thun extended by the arbitrary additions of Y & X Y O, hardly earlier than the seventh century R.C., to complete the representation of spoken Greek; and this completed alphabet was applied to numeration in the sixth century B.C., as a spontaneous invention in Ionian Miletus, or a neighbouring town, perhaps Halicarnassus. Either at this time, or at some time before the Ptolemaic papyrus period, another arbitrarily selected sign was added, to represent 900; but whether this was an adaptation of one of the other Greek letters (possibly q = 90), or was the rare sibilant T appearing independently in the same vicinity, the evidence is not yet sufficient to decide; these two. however, are the only probable alternatives. Then, I think, about the fourth century B.C. the Hebrew alphabet was similarly applied, in Hebrew writing, for numeration, but without any borrowings of extraneous forms or direct copying of the Greek system in details—the principle was accepted as an improvement on the old 'Phoenician' method, just as it was accepted in the Greek world as an improvement on the earlier acrophonic.

Further, I think that the evidence goes to show that the letter which corresponds to the Semitic h (Tsade) is the Greek M, and not T, though this may at some future time be found to be a cognate descendant from a different Semitic stem. It follows as a corollary from these conclusions that Tsade, as generally known to us, is not the same as T or T found for 900 on paper; and that T is quite as probably the normal, as that it is a rounded form of T. Lastly T=900 is the same as the minuscule T1 and the later T2 Sampi T3.

This and no more is in my opinion to be deduced from the existing data.

F. W. G. FOAT.

Note.—As this article is being passed for press, Prof. E. A. Gardner calls my attention to the use of T=900 in an inscription of the second century a.c. from Magnesia (Kern, Inschr. von Magn. 100; Ditt. Syll.\* ii. 552, 1.83). This is apparently the earliest lapidary instance.

#### NOTICES OF BOOKS.

The Myths of Plato. Translated with Introductory and other observations by J. A. Struwaut, White's Professor of Moral Philosophy in the University of Oxford. Pp. xii+232. London - Macmillan & Co., 1905.

The principle which liss at the root of Prof. Stewart's philosophy, and which animates his exposition of Plato's thought in the present volume, is the conviction that there is a truth higher than the truths attainable by science and reason, and cognisable by a higher faculty, which he calls Transcendental Feeling. This Transcendental Feeling is defined as 'al once the selence sense of Timpless Being-of "That which was, and is, and ever shall be " overshadowing us - and the conviction that Life is good "; and " in Transcendental Feeting, manifested normally as Faith in the Value of Life, and costatically as sense of Timeless Being, and not in Thought proceeding by way of speculative construction, that Consciousness comes nearest to the object of Metaphysics, Ultimate Renlity. Thus Poetry, which is the embediment of Transcendental Feeling, gives as from time to time glimpses of a truth which we feel to be higher and trues than any of the 'facts' of which science can assure us. In Plate these higher glimpses are embedded in the Myths, which const quantly contain the kernel of the Platonic philosophy. As Kant's Ideas of Reason represent aspirations and ideals which cannot be made the objects of speculative science, but a faith in which is essential to the regulation of our conduct, so Plato's myths regulate Transcendental Feeling for the service of somhust by representing certain faiths or presuppositions which are inseparable from intelligent human life, and associating them with the constitution of the Council.

In pursuance of this belief, which is most lucidly set forth in the introduction and illustrated by copious quotations from poetry and folklore, Prof. Stewart gives a text and translation of all the Platonic Myths (the Timacus is abbreviated and the Critias only annuarised), with comments on the principal thoughts suggested by them. His main thesis will be accepted or rejected according as the reader's taste leans towards Philosophy or Poetry; but few can fail to appreciate the thoughtful, poetic, outlook upon existence which his book reveals, or the fine sense of grant literature—especially Dante—with which it is illustrated. It is an original, individual, unconventional work, which will be read with pleasure by scholars and philosophers in this country.

Thukydides. Erklärt von J. Classen, Bd. vi. (bk. vi.): dritte Autlage, beerbeitet von J. Steur. [Samulusy grieghischer und lateinischer Schriftsteller, mit deutschen Anmerkungen.] Pp. iv +295. 2 maps. Berlin: Weidmann, 1905. 3 m.

This new volume of the new edition of Classen's well-known work does not need more notice than is required to call attention to its existence. Not much use is made of such new material as his appeared since Classen's time. Hude's edition is mentioned, but not approved; that of Stuart Jones does not seem to be mentioned; in the episode of the

Pisistratidae the evidence of the 'Adquasse Holeres' is mentioned only to be rejected wherever is differe from Thocydides. Two small imps, of Sielly and the slege of Symouse, are prefixed. English schoolmasters might well make use of the book for comparison with (but and measurily in substitution for) the editions published in this country.

The Flinders Petrie Papyri. With Transcriptions, Communitaries, and Index. [Part III.] By the Bay. J. P. Mawarer, D.D., and Prof. J. Gilmant Survey (Royal Irish Academy, Cunningham Memoirs, No. 21., Dublin, 1905). Pp. xx+289. Seven autotypes. £2 2s. not.

The third pure of the Flunices Petro Pappyro to the result of many years toll on the part of Prof. Smyly in revoking the texts originally edited by Prof. Mahaffy, and in working ever the mass of fragments which the latter had left untouched. In this way the old teris have been improved and cometimes enlarged, and many new documents have been added to them. The fragment on the Third Syman War of Ptelemy III is shown to be probably a proclamation or narmitive assued by the king himself; otherwise no literary or quasi-interary text appears in this volume. On the other hand there is a great quantity of legal, official, and business documents, and a good deaf of light is thrown on the administration of Egypt, and especially of the military colony settled in the Fayner, in the third esintary s.c. The form of publication is cumbrons, especially for an stout a volume in this, and for practical purposes it would have been more convenient to have had all the texts, old and new, printed in full in a less juxurious style, instead of having long series of corrected readings of the earlier parts; but no doubt the possibility of using the generous financial aid of the Royal Irish Academy if it appeared as a "Cannangham Memoir" was a decisive consideration. Dr. Mahaffy contributes an introductory paper, which is devoted to a damaging reply to Prof. Revillant's criticisms.

C. Plinius Secundus, Nat. Hist. 11, 242—VI. Edited by D. DETLEFSEN [Qualter and Forechanges for after Geschichte und Geographie, Heft. 9]. Pp. xvii+282. Istrin: Weidmann, 1904. 8 m.

This is a critical edition, with apparatus on a large scale, of that part of the Naturalis Historia which relates to geography. Prof. Deticism has collected critical materials for the whole of the work, to a much larger extent than could be orilised in the edition issued by him in 1866-73; and as he sees no possibility of the publication of a complete editionation, be takes advantage of the Quellon and Forecknopen seems to publish a portion of the text with the full apparatus at his command. The conclusions with regard to the textual criticism of Pliny derivable from this section of the work will naturally be of value for the study of the whole. Systematic use has been made of the excerpts from the Nat Histineerporated in Solimus, Martianus Capella, Bede, and the treaties de memore ordes of the Irishman Dienut.

History of Ancient Pottery, Greek, Etruscan, and Roman. By H. E. Walfers.
Based on the work of Samuel Binch. 2 vols. Pp. zzzvi+504, ziv+588. With 300
illustrations, including 8 coloured plates. London: Museau, 1905. Svo. £3 3s.

The basis on which this important book is constructed had become so much damaged by thine, that it was necessary practically to rebuild infrom the foundations. It is true that not very much has been added to the first quarrer of the book, dealing with introductory and technical matters. But, for the rest, the work must be regarded as an independent

production. It might not, indeed, have been undertaken on so extensive a scale had not Birch's book already existed; but otherwise there is little left of the original save certain traces-occasionally quaint enough-perceptible in style or method. The author has wisely drawn the limits of his subject somewhat narrower, omitting the pottery of the Ess and of the Northern barbarians. He has thus obtained space for the sections which bulk more largely in the new than in the old book. This is notably the case with the art of vase painting, its history and treatment of subjects; it is in this, of course, that most advance has been made of late. And we now have an admirable summary of recent research in the history and classification of Roman terracotta-work and pottery. This section (nearly a quarter of the book) will make it necessary to every stinlent of Romano-British antiquities. Perhaps the whole work would have gained in some ways had the author boldly out out of his scheme the whole of such Greek and Roman terracotta-work as is not pottery, strictly speaking. This would have left room for the fuller treatment of two points which we may notice. The earliest pottery from Greek sites, especially those recently excavated, is not, we think, accorded the space which it deserves. In particular, of the extraordinary richness and artistic value of the scramic remains from Crete little ides can be gathered from the brief section devoted to them. The author may, however, plead an excuse : although these remains, in bulk and beauty, must rank before those produced by any other prehistoric site, we cannot yet be sure of having found the right perspective in which to view them. Better, therefore, not to risk putting on record, in a general hamiltook, an erroneous theory as to the place of these antiquities in the history of pottery. Secondly, the author has hardly attempted to deal with Greek vases from the seethetic point of view, either as regards their place in art generally, or in relation to other schools of decarative pottery. Yet this, outside the archaeologist's study, is surely the one important thing about Greek vase-forms and vas-painting. These deficiencies are, however, mere specks on a fine piece of work, which has entailed an enormous amount of labour gladly bestowed, and will be gratefully appreciated by every student and teacher. A good hibliography and index accompany the volumes; and the illustrations are as good as can be obtained by means of half-tone and line-blocks

Douris et les Peintres de Vases Grecs [Les Grands Artistes]. Pan Edmont Portura. Paris : Lumatum Ranocam., Pp. 128, 25 illustrations. [1905.]

M. Pottier's contribution to the French series of "Great Artists" is a model for these who attempt to popularise archaeology. Its aim is to show how a botter idea of the spirit of Greek painting may be gained from a study of a single vase-painter's work than from any amount of literary description or later monuments, although the vase-painter does not necessarily reflect any individual painter's genins. He selects Douris on account of the number of his vases preserved, all of which we know that he actually painted himself.

Introductory sections deal with the social condition of Athenian rass-painters, the conditions under which they worked, and their technical equipment. Then the vases of Donris are discussed in detail, according to the different classes of subjects depicted, followed by an artistic estimate of his work. There is a useful bibliography, and the photographic illustrations are uniformly excellent.

Les Monneies Antiques de l'Italie. Tome l. Fasc iv. (Les Saunites-Campaniens.) By A. Sauses. Pp. 56 With 29 cuts in the text and a photographic plate. Paris: Bureaux du Musse. 1905. 5 f.

The present instalment of this meritorrous work is considerably shorter than any of its prodecessors. The series with which it deals are, however, exceptionally interesting, more particularly those of Hyria and Phistolia. The author does not startle us with any noval

theories. But his statements of fact are careful, and his own judgment, when there is need to exercise it, is sober and cautious. Is it hopeless to appeal once more for additional photographic illustrations /

A Grammar of Greek Art. By PERCY GARDNER. Pp. xii+267. 87 illustrations. London and New York: Magrillan and Magrillan Co., 1965. 7s. 6d.

This is an attempt to explain 'what are the main principles of Greek art and what are its relations to literature,' intended 'principally for men of classical training, and particularly for classical teachers in schools.' It contains chapters on the General Character of Greek Art; Ancient Critics on Art; Architecture; Sculpture; Vases; Literature and Painting; the Life History of a Myth, and similar subjects. There is probably no other book which fulfils the purpose in the same way with so much fucidity and directness, yet breadth of handling. It does not give to any great extent the sort of information which is found in text-books of archaeology; rather it seeks to clothe such dead bones with something approaching to significant life. It is a genual protest against the unintelligent use of accord-hand archaeology by transfers, concluded in the form of a guide to the understanding of archaeological data, and of an ineltensed to training, as apart from more book-knowledge. Not only teachers, but specialists will find it worth studying; for it serves to correct the mistaken perspective which every specialist is liable to adopt, and the author's remarks are always thoughtful and, backed by experience, often illuminating.

Orientis Graeci Inscriptiones Selectae. Supplementum Sylloges Inscriptionum Graecarum. Edidit W. Deternaries. Vol. II. Pp. vii + 750. Leipzig : Hinzen, 1905.

The first volume of this remarkable work was published in 1903; the second and concluding volume is already before us. We have in it 280 inscriptions relating to the various Eastern provinces of the Roman Empire. An Appendix gives 50 important inscriptions discovered since the collection was first put into shape. These are not so exciting, except to specialists in Hellenistic history, as the brilliant procession which finished up the second edition of the Solloge. But among them are some which have hitherto been printed not at all or only in part: 762 [from Cibyra: alliance with Rome, probably som after 188 as 1, 763 [from Mileins better of Emmines II to the Lonian saisos], 765 [from Priom: bonours to Sotas for services against the Galatae in the famous invasion]. Then follow addends and corrigends, and the invaluable series of indices which we expect and get from this editor: among them an index of the places from which the incriptions come. The book as a whole is absolutely indispensable to the historical student, whether or not be has secess to the immunerable and unwieldy publications from which this inscriptions are collected; for nowhere alse will be find a commentary to compare with this for sobriety of judgment and critical accumen:

The Progress of Hellenism in Alexander's Empire. By J. P. Manayev. Pp. vi+154. London: T. France Unwes, 1905.

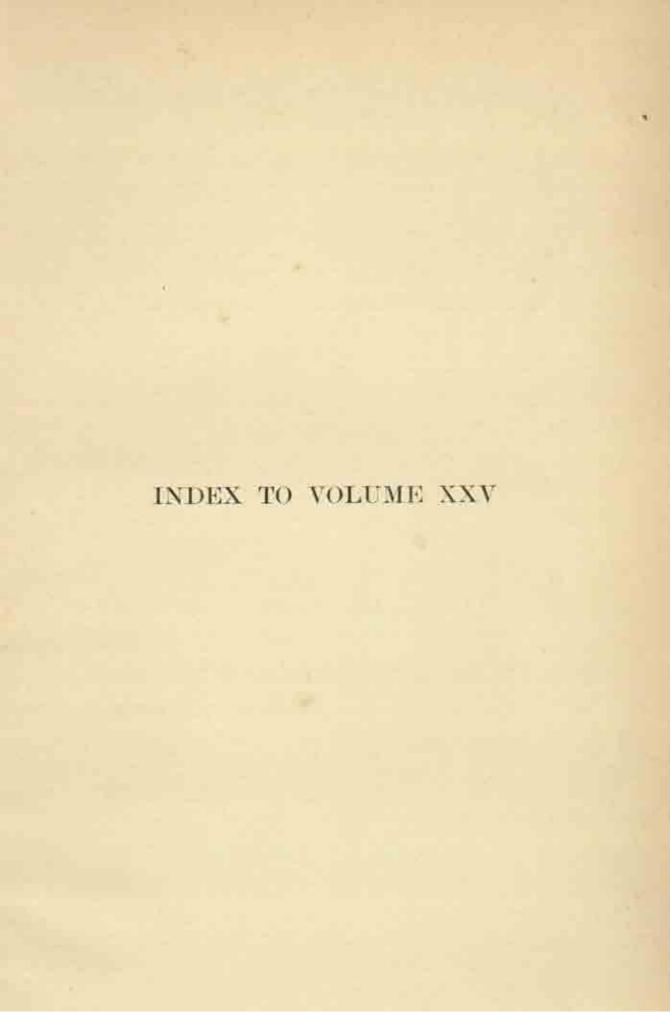
This is the publication in book form of a course of lectures delivered by Dr. Mahaffy in the summer of 1904 at the University of Chicago. The treatment of the subject is to a great extent popular in character, but Dr. Mahaffy is so thoroughly at home with all that relates to this period of history that the result is instructive even for the specialist. The opining chapter seeks to show that Xenophon is to be regarded as the precursor of Hellenism.

This view is doubtless true in so far as Xsnophon, who for a Greek was a much travelled man, had imbibed many influences foreign to Greeks proper. Other chapters deal with Hellenism in Macedonia, Egypt and Syria, and the final chapter estimates the influence of Hellenism upon Christianity. Dr. Mahaffy's enthusiasm occasionally leads him to exaggerate the merits of Hellenism, s.o. in art. Fine as they are, the Nike of Samothrace and the Aphredita of Melos are not without features which point to a period of decline. The style of the lectures is, as we should expect, refreshingly vigorous, and the translant ellusions to modern political and social questions add piquancy to a work which should go far to convert any who still cling to the belief that Greek History ends with Chaptonesia.

De Graecorum Medicis Publicis Scripst R. Pom., Pp. 84. Berlin Reimer, 1905.

This dissertation contains a full and conscientions discussion of precioully all that is known and has been conjectured about public physicians in Greece from the earliest down to Roman times. It is, of course, often difficult to decide whether certain physicians mentioned in history actually held public office; an instance worth considering is the faços larges Acron of Agrigantum. Among other things, the author points out the original distinction and ultimate confessores of the true medical art and the art of the priests of Askiepios. He discusses fully the evidence of inscriptions and papyri, and even the solitary instance of an apxiorpose named on a Greek coin (Statilius Attalus of Hencies Salbese; has not escaped blue.

<sup>\*</sup> For other books received, see List of Accessions to the Library.





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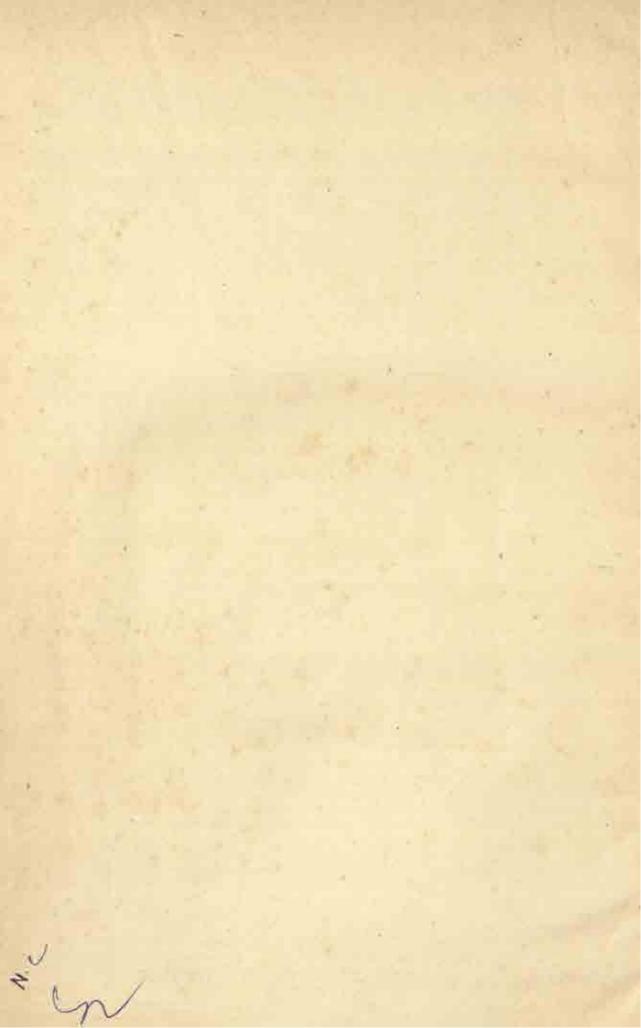
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